

**From:** colleensimpson@nalcenergy.com  
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**Subject:** Area Manager - HVdc Specialty Installations & Switchyard  
**Date:** Wednesday, February 23, 2011 1:54:21 PM

**Attachments:**

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[\[REDACTED\] ArMgr HVdc Spec and Overland Transmission.doc](#)  
[\[REDACTED\] \(Fabcon\) HVdc Installations & Switchyards.pdf](#)  
[\[REDACTED\] \(USI\) HVdc Specialty Installations & Switchyards.doc](#)  
[\[REDACTED\] \(AE\) Area Mgr HVdc.doc](#)  
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[\[REDACTED\] \(Fircroft\) Area Mgr HVDC Install & Switchyard.pdf](#)  
[\[REDACTED\] \(SO\) Area Mgr HVDC.pdf](#)  
[\[REDACTED\] \(NSB\) Area Mgr HVdc.pdf](#)  
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[ATTZBTOV.doc](#)

Ron, please see attached CVs received for Area Manager-HVdc Specialty Installations & Switchyard.

Regards,

Colleen



AREA MGR-HVDC SPECIALTY INSTALLATIONS & SWITCHYARDS SCOPE DESCRIPTION.pdf



Recruiting companies used for Area Mgr-HVDC.doc



[REDACTED] (USI) HVdc Specialty Installations & Switchyards.doc



[REDACTED] ArMgr HVdc Spec and Overland Transmission.doc



[REDACTED] (Fabcon) HVdc Installations & Switchyards.pdf



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[REDACTED] (AE) Area Mgr HVdc.doc



[REDACTED] Ar Mgr HVdc Speci and Overland Transmission.doc



[REDACTED] (Fircroft) Area Mgr HVDC Install & Switchyard.pdf



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[REDACTED] (NSB) Area Mgr HVdc.pdf



**Colleen Simpson**  
**Contract Coordinator**  
**Nalcor Energy - Lower Churchill Project**  
t. (709) 737-1839 f. (709) 737-1985  
e. [ColleenSimpson@nalcorenergy.com](mailto:ColleenSimpson@nalcorenergy.com)  
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**1.888.576.5454**

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Area Manager – HVdc Specialty Installations & Switchyards



## **Professional Summary**

██████████ is a Professional Engineer with more than 35 years experience including in roles as Electrical Design Engineer and Senior Electrical Engineer. ██████████ has a Masters of Science in Electrical Engineering as well as Project Management Training.

## **Education**

Polytechnical Institute (Technical University), Tallinn Estonia; *Master of Science in Electrical Engineering; Diploma E nr 26719; 1968 – 1973*

The Evening University, Tallinn Estonia; *Studies in Business Economy, Diploma nr 3192; 1968 – 1973*

## **Related Training/Courses**

- AcadeMedia, Stockholm, Sweden; *Project Manager Education; 2004*
- Royal Institute of Technology, Stockholm, Sweden; *Studies in Technical Information, Technical Writer (10p); 1999*
- Royal Institute of Technology, Stockholm, Sweden; *Studies in Computer Communications (4p); 1999*
- Royal Institute of Technology, Stockholm, Sweden; *Studies in International Industrial Marketing (4p); 1997 – 1998*
- Royal Institute of Technology, Stockholm, Sweden; *Studies in Industrial Marketing (5p); 1996*
- Royal Institute of Technology, Stockholm, Sweden; *Studies in Algorithms and Data structures' Programming in Pascal, Fortran (6p); 1995 – 1996*
- University of Stockholm, Sweden; *Studies in Law (10p); 1995*
- MIROI Education Centre, Stockholm, Sweden; *PC co-ordination & C ++Programming; 1995*
- UNISYS Education Centre, Stockholm, Sweden; *Basis of Mapper. Computer communication; 1987*
- Stockholm Municipal Centre of Education; *Computers and Programming in BASIC; 1986*

## **Experience**

**Aibel AS** **Norway**  
**2010 Contract**  
**Senior Electrical Engineer, Consultant**

**AREVA T&D** **Oslo, Norway**  
**2009**  
**Senior Electrical Engineer, Consultant**

**Multiconsult** **Oslo, Norway**  
**Shtockman (owners: Gazprom, StatOil, Total)**  
**2008 – 2009**  
**Senior Electrical Engineer, Consultant**

- Preparation work for the new project.
- Coordinated International Norms/Standards in Electrical Engineering.
- Engineering, technical calculations and analysis.
- Project Mining: Sydvaranger Gruve AS., Kirkenes and Project: Bjørnevatn – Selectivity study.
- Protective Device Settings, Technical Analysis and Technical calculations.
- The software program EDSA Power 2005 was used.



## Area Manager – HVdc Specialty Installations &amp; Switchyards

**AMEC Oil & Gas**  
2008

**London, UK**

**Electrical Design Engineer, Consultant**

- Technical analysis and calculations for Oil Platforms for International Associations.
- Modification of Chirag Oil Platform Baku, Azerbadzan.
- Electrical analysis program ETAP was used.
- Analysis of different feeding alternatives for CHIRAG Oil Platform from DWG-DUQ Oil Platform.
- Sizing of Equipment. Cable sizing, switchgears sizing, transformers sizing and validation of preferable tap-changer alternative for different feeding alternative (66kV, 33kV and 22kV in accordance of DWG-DUQ Generating possibilities), different options and operating models. Fault SC and Transient analysis, Load Flow and Voltage Drop analysis, Motor starts analysis for WI Pumps (8500kW and 1260kW) and Gas Compressor(1100kW) for 11 kV SWGR and 3.3 kV SWGR respective with different Start types (DOL –Direct on Line and Soft-Start alternative).
- Prepared and validated ETAP modules for respective feeding and options alternative in accordance with Oil Platforms possibilities, different Load alternatives, Economical realization plan and Standards.
- Prepared Report “ CHIRAG ETAP STUDY” (70 pages) and Appendix for Report including all Drawings for CHIRAG and DWG-DUQ Platforms (SLD-Singel Line Diagrams) with different feeding and options alternative and reports for respective Analysis / Calculations results.

**AIBEL**

**Oslo, Norway**

**Alvheim, Oil Industry and Oil Platforms for International Associations**  
2007

**Senior Electrical Engineer, Consultant**

- Involved in the building of oil platform and refinery from old boat.
- Power generation questions, MV and LV voltage operations and specifics problems typically for Refinery Companies. SLD, PLC, analysis and design.

**Own Co.**

**Sweden**

2002 – 2006

**Owner**

- Div. Consulting Electrical Engineering work and Construction.
- Electrical calculations, switchgears settings and EI-Cad relations drafting's periodically for Arlanda project.
- Corrected constructions EI-Cad draftings and draftings arrangement for Ahlstrom periodically.
- Arrangement of draftings for ABB, provided support for different projects.

**ABB Utilities AB, Power Systems**

2000 – 2002

**Consulting Engineer**

*Three Gorges*

*Kina*

*Longquan & Zhenping Converter Stations*

*Garabi Converter Station*

*Brazil-Argentina*

*Interconnection*

*Cross Sound Cable*

*USA*

## Area Manager – HVdc Specialty Installations &amp; Switchyards

*Murray Link**Australia*

- Technical calculations and analysis, AC & DC systems.
- Selectivity Study.
- Electrical analysis program
- EDSA was used.

***ABB Power Systems, Swepol Link  
Slupsk & Sternö Converter Stations, Sweden-Poland Interconnection  
2000 – 2001  
Consulting Engineer***

- Technical calculations.
- Selectivity Study.

***Locum AB Division  
2000  
Consulting Engineer***

*Danderyd, Stockholm*

- Nacka and Danderyd hospitals, electrical systems.
- Technical designing, analysis, calculations.
- Responsible for projecting.

***ARLANDA 2002  
1999 – 2001  
Consulting Engineer***

*LFV Stockholm*

- Technical designing, analysis, calculations.

***ABB Contracting AB, Installation  
2000  
Consulting Engineer***

- The selectivity study for S: T GÖRAN hospitals. Station B, Haus 05.
- Calculations, net's analysis and selectivity study.

***SÅG2000 Södra Timber  
1998 – 1999  
Consulting Engineer***

*Mönsterås, Sweden*

- Short-circuit currents calculation.
- Net's analysis.
- The selectivity study.
- Programs EDSA and SELEKTIV were used.

***ÅF-Elteknik AB  
1998 – 1999  
Consulting Engineer***

*Stockholm*

- Dimensioned different reserve power stations.
- Calculated with program EDSA, LEDSTROM, NETKOLL.
- Programming in ACCESS and marketing analyses.
- Producing of material for education in electrical selectivity in coordination with SIFU Education.

## Area Manager – HVdc Specialty Installations &amp; Switchyards

**SMS, CEMENTA AB****1998****Consulting Engineer****Slite**

- Short-circuit currents calculation.
- The selectivity study.
- Relays settings.
- Programs EDSA and SELEKTIV were used.

**Nynäs AB, Oil Refinery****1998****Consulting Engineer****Nynäshamn**

- The selectivity study.
- Short-circuit currents calculation for different operations mode.
- Programs EDSA and SELECTIVE were used.
- Selectivity checking and verification of fuses versus.
- Program LEDSTROM was used.

**Bulten Production AB****1998****Consulting Engineer****Hallstahammar**

- Responsible for forecasting studies and calculations of capacitive current to earth.

**Gävle Kraftvärme AB****Power and Heating Plant****1997 – 1998****Consulting Engineer**

- Short circuit currents calculations for difference contingency of feeding.
- Dimensioning of cables.
- Checked starting conditions for pumps and blower sets.
- Selectivity control.
- Program EDSA was used.

**Käppalaverket, Elproject for Käppala Mill****1997 – 1998****Consulting Engineer**

- Dimensioning of cables.
- Checked settings for circuit-breakers.
- Selectivity study.
- Short-circuit currents calculations.

**Karolinska Institute, Akademiska Hus****1997 – 1998****Consulting Engineer****Solna**

- Short circuit currents calculations for different contingency of feeding.
- Programme EDSA was used.

## Area Manager – HVdc Specialty Installations &amp; Switchyards

**Cooling Plant Kåkenhus, Stockholm Energi  
1997****Consulting Engineer**

- Responsible for checking of compressor working.
- Calculations of short circuit currents and voltage drops for motor startings.
- Program EDSA was used.

**Danisco Sugar AB****1997****Consulting Engineer****Örtofta Sockerbruk**

- Short circuit currents calculations of different contingency of feeding.
- Responsible for analyzing and suggestions.
- Program EDSA was used.

**STORA Hylte AB****1997****Consulting Engineer****Hyltebruk, Sweden**

- Analyzed selectivity for switchboard S6 TMT - Plant.
- Relay protective system adjustment, checked starting currents.
- Project for starting of new Refiner.
- Selectivity control. Calculations of transformers losses.
- Programs EDSA and SELEKTIV were used.

**ÅF-Elteknik AB, "Elinköp"****1996 – 1997****Consulting Engineer****Sweden**

- Adjusted general program for electricity market analysis.
- Produced material in Power Point about programs.
- Ledstrom III and Selective for introducing and instructions.

**AssiDomän AB, Segezha Paper Mill****1996 – 1997****Consulting Engineer****Russia**

- Inspected electric power distribution on site.
- Reviewed condition of the electrical installations and electrical equipment.
- Translated from/to Russian.

**Atlas Copco, Sickla Industrifastigheter KB****1996 – 1997****Consulting Engineer****Sweden**

- Control of electricity purchase and electricity market analysis.

**Banverket****1996 – 1997****Consulting Engineer****Sundbyberg, Sweden**

- Corrected electrical drawings in Autocad 12.

## Area Manager – HVdc Specialty Installations &amp; Switchyards

**Södra Cell AB**  
**1996 – 1997**  
**Consulting Engineer**

**Mönsterås Bruk, Sweden**

- Corrected selectivity diagrams, relay protective systems adjustments.
- Final report.

**ÅF-Elteknik AB**  
**1996 – 1997**  
**Consulting Engineer**

**Stockholm, Sweden**

- Used Ledström III.
- Revised program for dimensioning of cables and fuses in low voltage nets, programming in Microsoft C and Turbo Prolog.
- Responsible for programming and installation of Sentinel PRO Hardware Key.

**LKAB**  
**1996**  
**Consulting Engineer**

**Sandskär, Sweden**

- Short circuit currents calculations, selectivity diagrams, relay protective system settings.

**Skultunaverket**  
**1996, 1999**  
**Consulting Engineer**

**Gränges Skultuna, Sweden**

- Short circuit currents analysing, selectivity studies, relay protective system settings.

**University Hospital**  
**1996, 2001**  
**Consulting Engineer**

**Linköping, Sweden**

- Short circuit currents calculations, selectivity diagrams relay protective system settings.
- Calculations of capacitive current to earth.

**Holmen Paper AB, Hallsta Pappersbruk**  
**1996 – 1998**  
**Consulting Engineer**

**Hallstavik, Sweden**

- Short circuit currents calculations, selectivity diagrams relay protective systems adjustments.
- Starting conditions for equipment.
- Program EDSA and LEDSTROM were used.

**ÅF-Elteknik AB**  
**1996**  
**Consulting Engineer**

**Stockholm, Sweden**

- Produced program for statistic of Hardware Keys in ACCESS.

**VBB VIAK Consulting AB**  
**1989 – 1993**  
**Technical Engineering – archive**

**Stockholm**

**Stockholm Municipal Office**  
**Handbooks and Elections Department**  
**1988 – 1989**  
**Office employee**





## Area Manager – HVdc Specialty Installations &amp; Switchyards

**The National Tax Board**  
**Computer Operation Service Department**  
**1987 – 1988**  
**ADB employee**

**Stockholm**

**Stockholm Municipal Office**  
**Committee for Stockholm's Research**  
**1986 – 1987**  
**Clerk**

**Social Services, Stockholm**  
**1983 – 1986**  
**Home Service, employee**

**University of Stockholm**  
**Extension Courses**  
**1983 – 1986**  
**Teaching leader in Russian**

**TTC, Municipal Authority**  
**1981 – 1982**

**Tallinn, Estonia**

- Transferred to the position of chief engineer.
- Engineer – technologist in the rolling-stock service.

**Tallinn Hotel Amalgamation, Municipal Authority**  
**1980**  
**Electric Service Engineering**

**Tallinn, Estonia**

**Tallinn, Estonia Municipal Authority**  
**Hotels Amalgamation and Transport, Technical Centre**  
**1980 – 1982**

**Tallinn, Estonia**

- Checked and revised electrical distribution system.
- Planned and completed electrical equipment.
- Controlled and tested electrical equipment.
- Electrical calculations and analysis.

**"Punane RET" Electronics Plant, Trade Ministry**  
**1979 – 1980**  
**Economist**

**Tallinn Estonia**

**"Information and Calculating Centre of East" Trade Ministry**  
**1979**  
**Programming Engineer, Programming Group**

**Tallinn, Estonia**

**"Information and Calculating Centre of East" and Electronics Plant**  
**1979 – 1980**

**Tallinn, Estonia**

- Economical analysis, calculations, checking and revision.
- Programming in Fortran, Pascal, Algol.

**Estonenergo "Energosbyt"**  
**1975 – 1979**  
**Electrical Engineer**

**Tallinn, Estonia**

Area Manager – HVdc Specialty Installations & Switchyards

***Estonenergo, "Estonenergy"***  
***Department of Capital Construction, North High Voltage Network***  
***1973 – 1975***  
***Electrical Engineer***

***Tallinn, Estonia***

***"Estonenergy"***  
***Department of Capital Construction and "Energosbyt"***  
***1973 – 1979***

- Studies and calculations of North High Voltage Network.
- Planning of substations. Studies and calculations of electrical equipments.
- Short circuit currents calculations.
- Electrical power transmission- and distribution system review and calculations.
- Technical and economical analysis, etc.

***Diploma work: Projecting of Substation 110/35/10 kV***  
***1973***



**- Highlights**

- Extensive experience in HV AC/DC conversion projects, in Edmonton, BC and the US.
- Experienced in project management in overground and underground Transmission and distribution lines, with specific expertise in route selection, component specification, and installation and mobilization of such lines.
- Worked as principle EE for switchgear and control systems in a large mining projects.
- Managed replacement and upgrades to substation conversion programs.
- Availability with three weeks notice.

**CV*****Professional summary***

*I am a Professional Electrical Engineer with a University Master's degree in electrical power systems. Extensive experience in: design, installation and commissioning of electrical power generation, transmission and distribution systems, including, high/medium/ low voltage substations, power distribution, control systems monitoring and networking, for utilities, mining, heavy industry, oil and gas, commercial and institutions applications. System Studies including planning, selection and specifications, load flow and short circuit calculations, voltage and power losses lighting, metering, protection, and energy management.*

*My experience includes also; equipment selection and specifications for power and distribution transformers, high/medium/ low voltage/ breakers, switchgear, AC/DC motors and VFD drives. Grounding, lightning, power and control cables, heat tracing, lighting, hvac, HMI, AC/DC power supply, emergency generation, ups, scada, metering and controls. Reports, design calculation, single line diagrams, equipment and substation layouts / details, power transmission and distribution drawings, area classification drawings, schematics, wiring and interconnection diagrams*

*I have carried out feasibility, energy conservation, power quality, and co-generation studies. Also, experience in manages capital projects including; planning, scheduling, contract specifications and project coordination for existing and new installations. International consulting -construction environment background, ability to manage projects from conception to completion and advanced user of computer applications*

***Education***

*Engineer Electrical Mechanical Universidad Nacional de Ingenieros, Bsc. Lima Peru.  
Engineer Electrical Mechanical Universidad Nacional de Ingenieros, Eng. Lima Peru.  
Graduate Studies (Computer Applications) McGill University, Montreal, P.Q. Canada.  
Master of Engineering (Electrical Power Systems) University of Toronto. On. Canada.*

***Professional Memberships***

*Association of Professional Engineers of Ontario, Canada  
Association of Professional Engineers and Geoscientists of Alberta, Canada  
New York State, USA, PE Status (Pass all the Exams)*

***Languages***

*English, Spanish,*

***Professional Experience***

2005/ present    *EWP Consulting LTD*  
 2004/2005    *General Electric Co. South Carolina, USA*  
 2002/2004    *EWP Engineering,*  
 2000/2002    *Utility Engineering, Texas, USA*  
 1998/2000    *EWP Engineering*  
 1988/1998    *INCO LIMITED, ONTARIO, CANADA*  
 1982/1987    *Fenco Lavalin, Ontario, Canada*

**2005/ Present    *EWP Consulting LTD***

**2010/present (Consultant to)    *STANTEC, Edmonton, Canada***

***HV AC/DC CONVERSION PROJECTS***

*Proposal preparation for HVDC Projects including 500 kV DC Conversion plants and HV Sub Stations at Heartland (500kV) and West Brooks (240 kV). These substations are located in Edmonton, Alberta.*

*Proposal preparation for HVDC Projects including 500 kV DC Conversion and HV Sub Stations at Genesee (500kV) and Langdon (240 kV). These substations are located in Edmonton, Alberta.*

*Proposal for the city of PENTICTON Voltage Conversion Projects including load forecast, programming and preparation of a Master Plan. PENTICTON is located in B.C.*

**2005/ 2010    *EWP Consulting LTD***

2009/2010    *(Consultant to) AMEC, Oakville Ontario, Canada*  
***KEARL OIL SAND PROJECT***

*Senior electrical engineer for a project that included detail design of 72 kV underground supply, 4.16 kV and 600 V distribution system including transformer, breakers, mcc, cables and controls for an oil and gas project. Project co-ordination including consultant companies. Design interface including modular E Houses, modular pipe racks system, layouts / single lines drawings, cable schedule, cable/tray routing, checking and revision. Engineering, documents, schedules and engineering support.*

2007/2008 *(Consultant to) FLUOR Canada British Columbia, Canada*  
***PETRO CANADA FORTH HILLS EXTRACTION TAILINGS PROJECT***

*Principal Electrical Engineer for the electrical engineering, detail engineering, equipment specifications, bid evaluation, procurement, vendors drawing approval, testing, client/suppliers coordination. Including transformers, Medium Voltage motors, switchgear, motor control centres and variable frequency drives, Low Voltage motors, switchgear, motor control centres and variable frequency drives, heat tracing, UPS, batteries and chargers, pre manufactured Electrical Rooms, cables and ducts.*

*2005/2007 (Consultant to) Colt Engineering Co. Edmonton, Alberta, Canada  
ENBRIDGE, ONTARIO, WIND MILL POWER PROJECT*

*Project Manager for the electrical engineering and detail design coordination for ENBRIDGE 200 MW Wind Mill Power Project in Ontario. This project included 120-1.6 MW Wind Turbines, 2-120 MVA 44/230 kV Sub Stations, 4-44 kV Distribution Lines, 44 kV underground distribution, on line Voltage Control DVAR, 120 – 1.8 KVA 600V / 44 kV GSU Transformers. Work also included commercial / technical approval process coordination with Hydro One and IESO, coordination with the general contractor and subcontractors on behalf of the owner, electrical equipment specification, bid comparisons and suppliers selection.*

*EPCOR, GENESEE, 240 kV to 500 KV Sub Station Conversion*

*Project Manager for: the Genesee 500 kV Conversion Program. This program included the conversion from 240 kV to 500 kV the following units: Two ABB 270/360/450 MVA 256000/512000 GY/147800/ 295600-20500 Volts and one Hitachi 317/423/529 MVA 21/252-504 kV. Includes coordination with AESO, AESO studies review, contracts specifications, contract negotiations, conversion procedures, site coordination, project cost estimates and approvals, engineering and contractors coordination.*

*EPCOR, GENESEE, VARIOUS POWER PLANT PROJECTS*

*Project Manager for the following programs: Transformer Conditioning Monitoring, Transformer Maintenance Standards and Spares transformers for EPCOR LP Easter 7 Power Plants and 7 Western Power Plants. Responsible for Replacement Contingency Plan for the replacement of generator step up transformer at: at Genesee Power Plant (3), using a transformer from Keep Hills Power Plant, at Epcor LP Eastern Power Plants (7) and Western Power Plants (7)*

*COLT ENGINEERING EDMONTON, ALBERTA, CANADA*

*Lead Electrical Engineer for the Power Group, functions include:*

*Preparation of proposals for New Power Plants*

*Epcor Edmonton Genesee 4: 495 MW, 554MW, 700MW, 800 MW, 950 MW Coal Plants*

*Maxim Power Corp. Deerland Peaking Station: 4-GE LM600 Units*

*NR Green Power Kerrobert Peaking Plant: 2-GE LM600, 1-GE LMS100, and 3-GE LM2500 & G4 Units.*

*Technical assistance to existing projects/staff (Keep Hills 3 Coal Plant 500 MW, and Clover Bar Gas Plant (1-60MW, 2-100MW gas turbines) including design, special studies, clients' coordination specs preparation, documents/drawings review/approval.*

*2004/2005      General Electric Co. South Carolina, USA*

*Lead Sr. Electrical Engineer for the electrical engineering of Steam and Gas Generating Facilities rating between 80 MW and 380MW located in USA and other countries; including equipment selection and specifications, suppliers selection, bid comparison; drawings revision and equipment testing, coordination*

*with suppliers and project groups. Short circuit calculations and equipment sizing including HV Breakers, isolation, excitation and instrumentation transformers; cables, mcc, generator-turbine static starter and diesel generator set; wiring, controls and auxiliaries. Technical support for new and existing generating facilities, including root cause analysis and action plan development. Coordination of: Site personal, client and equipment supplier.*

**2002/2004      EWP Engineering, Canada**

*Project engineer for Markham Hydro MTS #3 substation expansion. Work included civil, structural, electrical equipment, trenches and underground cable ducts for control and 28 KV feeder and distribution cables for a 2- 50/66.7/83.3 MVA, 230/ 28 KV Markham Hydro Sub Station. Toronto*

*Consultant Engineer for the electrical design of a 25 kV substation and the expansion of existing electrical installations Work included detailed engineering, structural and electrical equipment, underground cable ducts, 25 KV feeder and 5 kV distribution cables, 25 kV breakers and disconnect switches, 2- 10 MVA 25/ 4.16 KV transformers, 5 kV switchgear, control room, metering and controls. Also were included the specifications for the cables, 25 kV breakers and switches, transformers, 5 kV switchgear and installation.*

**2000/2002      Utility Engineering, Texas, USA**

*Electrical Engineering for the design of Combine Cycle Cogeneration Plants at:  
MORGAN PLANT (ALABAMA): 3-200 MVA GAS AND 1-350 MVA STEAM TURBINES  
Pastoria Plant (California): 2-250MVA & 1-105MVA Gas and 1- 250MVA Steam Turbines.*

*Including for the plants 500-kV switchyard stations, 18/500-kV step up and 18/4,16-kV 50MVA auxiliary transformers, combustion and steam turbines generators and auxiliaries, AC/DC distribution and controls & plc's. interface, single lines, schematics and wiring diagrams, equipment selection and specifications. Power System Study including load flow - short circuit- relay coordination –voltage drop, AC/DC motors and drives, underground and overhead cables, buses, cable ducts and cable data base*

*Electrical Resident engineer for the construction of Tenaska Combine Cycle Cogeneration Plant in Alabama (3-200MVA Combustion and 1-450MVA Steam Turbines). Including 500-kV switchyard stations, 18/500-kV step up and 18/4.16-kV auxiliary transformers, combustion and steam turbines generators and auxiliaries, AC/DC power distribution and controls, plc & dcs interface, single lines, schematics. AC/DC motors and drives, underground and overhead cables & wiring, buses, cable ducts and cable database. Utility, construction, owner and suppliers site coordination.*

**1998/2000      EWP Engineering, Canada / USA**

*Project Manager. - Management and design of Scada Systems for Municipal Water District supplies in Long Island, N.Y. including power supply, substations, switchgears, emergency generation, transfer schemes, distribution, lighting, controls, PLC, UMI, Scada equipment selection, specifications, and project management. Details layouts, schematics and wiring diagrams*

*Consulting Engineer for preliminary/detailed engineering and commissioning of the power distribution system upgrading for the City of Orillia 7.25 MIGD Water Treatment Plant. Work included consultant engineering for the upgrading of the 4160/600 volt distribution system, main 46 / 4.16 kV substation including transformers, feeders and switchgear, 1-900 kW diesel generating plant, switch room, transfer scheme, PLC, man machine interface, communication network, scada, metering and controls. Lighting and HVAC systems retrofit. Details layouts, schematics and wiring diagrams*

*Consulting Engineer for preliminary and detailed engineering of the power distribution system upgrading for the City of Sudbury, Sewage Treatment Plant. Work included engineering for the upgrading of the 4160/600 volt distribution system, main 46 / 4.16 kV substation metering, 600, 150 & 100 kVA variable frequency drives, 100 and 300 kVA soft starters, HMI, control panels, PLC, 1-2MW generator set, 700 kW electrical boiler including breakers, feeders and controls. Lighting and HVAC systems retrofit. Details layouts, schematics and wiring diagrams*

*Project Manager responsible for the energy conservation studies for Buildings, Schools and Housing Complex in different locations in Canada and USA. Work included electrical and mechanical inspection of the facilities, report preparation, retrofitting recommendations and cost comparisons.*

**1988/1998      Inco Limited, Ontario, Canada**

*Study and design of INCO large mining complex power system in Ontario, Canada. The study included load flow calculations, net fault calculations, computer applications and energy management. The Electrical System includes 2-300MVA and 2-150MVA, 120-69-13.8 kV substations, overhead transmission system, underground distribution, mines-mills-refineries-smelter heavy electrical load and hydro generation. Peak Load 200 MW, Generation 50 MW.*

*Responsible for All Plants and Mines at INCO Limited, Ontario Division – Drawings upgrading and revision, including, computerized control program. Revise and approve designers and consultants design including layouts, schematics, wiring, for power and distribution systems, and industrial installations. Engineering standards, electrical code, fail safe, and functionality.*

*Senior Electrical Engineer - Preliminary and detailed engineering, project coordination and start-up for the conversion of the NRC Plant motor control centres to Programmable Logical Controllers at the INCO Ltd CC Nickel Refinery. Technical specifications, detailed design, layouts, schematics and wiring diagrams, metering and controls, project co- ordination, and start-up of 3 PLC, 3 man-machine monitors and communication network.*

*Senior Electrical Engineer - Electrical engineering design, project coordination and start-up of two Silpac 3200 DC drives for INCO Ltd. C.C.N.R. #2 top blower rotating converter. Incl. equipment selection and specifications, detailed electrical design, details layouts, schematics and wiring diagrams, metering and controls, vendor coordination, installation and commissioning of the drives, PLC, distribution panels, transformers, feeders & relay coordination. Removal of existing drives and installation of new drives was performed without losing plant production.*

*Senior Electrical Engineer - Conceptual and detailed electrical engineering for the upgrading of the CCNR #1 Top Blower Rotating Converter dual DC drive system. Work included preparation of specifications, detailed design, detailed layouts, schematics/ wiring diagrams, metering and controls. Also, field coordination, installation and commissioning of the control interface panel, relocation of controls, rewiring of components and testing. When the project was completed the TBRC #1 was set to drive by either of the two DC drive system.*

*Senior Electrical Engineer responsible for the conceptual and detailed engineering for the Nickel Foam Project Work included detailed design, specifications, process investigation, equipment selection, purchasing, installation and commissioning for: 13.8kv/600v power distribution, lighting, power and control feeders, metering and controls, 1- 300kW electric furnace, one infrared and one resistance heating plating units, two PLC, motor control centres, heat tracing, and fire protection. Also, detailed layouts, schematics, wiring and interconnecting diagrams.*

*Senior Electrical Engineer - Conceptual and detailed engineering, and installation of a 300 kVA Uninterruptible Power Supply System for the IPC Plant at the INCO Ltd., CCNR. Including detailed design, equipment selection and purchasing, installation, testing and commissioning of: 2-150kva UPS, 600v switchgear, computer control, PLC, feeders and control cables. This project was successfully completed and is already paying off by eliminating the cleaning and repairs of the buckets elevators normally done after an electrical power failure. The UPS units are supervised via telephone.*

*Senior Electrical Engineer - Conceptual and detailed engineering for the Emergency Preparedness System for the CC South Mine, and for the CC North Mine, monitored from CC First Aid. The work included detailed design, details layouts, schematics and wiring diagrams, metering and controls, investigation, equipment selection, programmable controllers, computer programs, and, testing and commissioning. The system is interconnected by radio to CC First Aid, the CC South Mine and the CC North Mine.*

*Senior Electrical Engineer - Detailed engineering for 3 -2100 HP 5kV Sync Motor Compressors, metering, control and protection, upgrading, including engineering, installation & commissioning for INCO Ltd., C.C. Nickel Refinery.*

**1982/1987      Fenco Lavalin, Ontario, Canada**

*Chief Electrical Engineer /Supervising Engineer for: responsible for the direction and operation of the industrial section of the electrical department of Lavalin Engineers. Work included engineering supervision of senior and junior designers, project and client liaison, engineering procedures and standards, system studies, project management, engineering estimates and design.*

*Senior Electrical Engineer for: Power distribution feasibility study to upgrade the Anshan iron and steel plant in China to 7 million t/y. The study included preliminary selection, design schemes, equipment layout, equipment description and pricing, and system description for 66kV and 220kV- overhead lines, 220 - 66 and 10.5kV- substation, reactive power compensation, system automation and 10.5kV power distribution.*



*Senior Electrical Engineer for: Conceptual, preliminary and detailed electrical engineering, and commissioning of a 5000-t/d copper-zinc concentrator facility, for Selbaie Mines, Val D'Or, Quebec Work included single lines, schematics and wiring diagrams, equipment selection and specifications for one 4500-HP 5kV- Synchronous motor and one 4500-HP DC variable speed drive (Sag Mill), 600 and 4160-V distribution system, AC/DC motors and drives, heat tracing. Also 2-20MVA 120-4.16kV substation inc. transformers, power and control cables and process drive equipment.*

*Senior Electrical Engineer responsible for: conceptual, preliminary and detailed electrical engineering and design of a 240 t/d 100% sulphuric acid plant, for Falconbridge Nikkelverk, Kristiansand, Norway. Work included preparation of technical specifications for 3300 V 1250 HP blower motor, ac/dc motors and drives, process drive equipment, controls, details layouts, schematics and wiring diagrams, metering and controls distribution system, lighting and heat tracing. The work also included design and construction site coordination.*

*Project Manager for: the Ankara Metro Subway Communications system Scada, CCTV, telephone, and radio/PA and transmission elements. Subway system included 12 stations covering 14 km and central control facilities. Including layout drawings, schematics, and wiring diagrams, for power stations, distribution substations, services, alarms and control and communication systems as per engineering standards, electrical code, fail safe, and functionality.*

*Project Manager responsible for: the project management for the engineering design, procurement, installation and testing of Provigo warehouse. Work included industrial power distribution and control, civil and structural, piping, fire protection system, 1-freezer and 3-cooler rooms, lighting and heating & revamping of existing installations. Lighting and HVAC systems retrofit, detailed layouts, schematics and wiring diagrams.*

*Project Manager for: the Revenue Canada Customs and Excise Power System Study for the Data Crown and La Fontaine Building Facilities. Work included electrical engineering and feasibility reports for the upgrading of the existing facilities adding UPS (Uninterruptible Power Supply) and upgrading the emergency power generation as per each building requirement. Including switchgear, UPS, transfer switches, equipment specifications/selection/evaluation, layouts, schematics and wiring diagrams.*

*Senior Electrical Engineer responsible for the preliminary and detail electrical design for a linear induction motor (LIM) transportation system, for Continental Can Canada Inc., Weston, Ontario. Work included preparation of technical specifications and design for distribution and control centres, lighting, alarms, distribution system and controls. Details layouts, schematics and wiring diagrams*

*Senior Electrical Engineer responsible for: the power system upgrading, for The Royal Canadian Mint in Ottawa. Work included the preliminary and detail electrical design, preparation of technical specifications for the service substation, distribution and control centre, lighting, HVAC, and controls. Project coordination with utility company, contractors and local staff. Layouts, schematics and wiring diagrams*

*Project Manager responsible for: the project coordination for the engineering design of the ventilation system for a 900 m tunnel at Singapore Airport. Work included electrical*

*and mechanical engineering design, power supply for the fans, lighting and services, substations, power cables and controls, client coordination and supervision of design disciplines. Details layouts, schematics and wiring diagrams*

***Other Generation, Transmission and Distribution Experience (13.8 kV to 220 kV).***

*Senior Electrical Engineer-for the upgrading of the power distribution system of Cominco's lead and zinc concentrator facility at Trail, B.C. Preliminary and detailed electrical design to upgrade work included preparation of technical specifications and detailed design for 15 MVA, 63 kV-13.8 kV main substations, 63 & 13.8 kV switchgear, 600 V motors and drives, heat tracing, controls, and distribution system. Details layouts, schematics and wiring diagrams*

*Senior Electrical Engineer – Red Dog Mines, Alaska, zinc-copper concentrator facility electrical system design. Work included preliminary design and specifications of 1-20 MW diesel co-generation power plant, emergency power, heat recovery, 4.16 kV switchgear, unit substations, plant and outdoor lighting and services 2500 HP fixed and variable speed drives, tank farm and heat tracing, port facilities, concentrator and mine power transmission and distribution systems, airport lighting and process drive equipment. Design of plant layouts, detail drawings, schematics and wiring diagrams.*

*Project Engineer - Electrical design and engineering of 1-150 MVA 132/13.8Kv power distribution system upgrading, including substation reactors, distribution tie reactors, 12-3c-750 MCM cables, 13.8 kV breakers, detailed layouts, schematics and wiring diagrams, controls, testing, commissioning, interdepartmental and field coordination for a Crofton Paper Mill project in British Columbia.*

*Senior Electrical Engineer - Electrical design and engineering of a 13.8 kV power distribution system and 1-43 MVA steam turbine co-generator system including detailed design, equipment layout, power distribution, auxiliary equipment, lighting, control centre, Details layouts, schematics and wiring diagrams, metering and controls as well as client liaison, interdepartmental and field coordination for Crofton paper mill in British Columbia.*

*Site Supervisor Engineer - Responsible for electrical engineering design and installation supervision for the installation of 200 Km 240 kV and 130 kV transmission lines and substations, for the I.O.C. Oil Company of Canada in Abadan, Iran.*

*Project/Field Engineer - Responsible for electrical engineering design and supervision for the installation of the 80 Km 240 kV Huinco – Lima transmission line and substations, for the Electrical Utility Company: Empresas Electrical Associates, Lima Peru.*

*Project/Field Engineer - Responsible for electrical engineering design and supervision for the installation of The Charcani -Chilina 20 Km 120 kV transmission line and substations, for the Electrical Utility Company: Arequipa, Peru.*




*Resident Engineer - responsible for the electrical design and installation for a 5000 houses camp in Campo de Armino for the Mantaro 500 MW Hydro Electric project in Peru, including substations, transmission and distribution systems, lighting and services. Details layouts, schematics and wiring diagrams*

**Transmission Line Experience (General)**

- *Components specification such as cables, hardware, insulators, grounding, wood/metal poles, towers and accessories, disconnecting devices, breakers, capacitors.*
- *Route selection, surveying, ruling span determination, structures location, sagging calculations, loading conditions/selection, clearances, structure loading and type selection, layouts and profiles and details drawings*
- *Bidding and purchasing of components including cables, hardware, insulators, grounding, wood/metal poles, towers and accessories, disconnecting devices, breakers and capacitors / reactors.*
- *Installation of transmission lines including, mobilization, transportation, scheduling, excavation, foundations, structures erection, insulation and hardware installation, conductors installation and connections to substations, grounding and substation installation. Voltages 13.8 kV to 220 kV.*
- *Substations Conversion from 220 kV to 500 kV including transformers, hardware, breakers, CTs, PTs and relaying.*

**COMPUTER APPLICATIONS EXPERTISE**

- |  |  |
|--|--|
| • <i>Microsoft Windows Operating System</i>  | <i>Microsoft</i>   |
| • <i>Corel WordPerfect 8, Quattro Pro</i>  | <i>Corel Co. Ltd.</i>  |
| • <i>Microsoft Project</i>   | <i>Microsoft</i>   |
| • <i>Computer Software for Design, Protection and Operation of Electrical Power Systems.</i>   | <i>EDSA and SKM.</i>   |
| • <i>Power System Graphics Software For Design, Planning and Protection For Electrical Systems</i>   |  |
| • <i>Office, Word, Excel Outlooks, Power Point</i>   | <i>Microsoft.</i>  |
| • <i>Internet, Web Pages, Servers, Netscape, Scada Systems and PLC applications.</i>   |  |
| • <i>Energy Conservation: Computer Design (energy consumption, billing, power factor correction, harmonics suppression, equipment inrush current, Variable Frequency Drives, Soft Starters, HVAC, PLC applications).</i> |  |
| • <i>General Electric Co.: Six Sigma, technical/ administration software, electric systems standards and calculations.</i>   |  |

Position Applied For: Area Manager – HV dc Speciality Installations & Switchyards

## RESUME

NAME : ██████████  
 PROFESSION : Lead Electrical Commissioning Engineer  
 CITIZEN : Canadian  
 LANGUAGES : English

### EDUCATION

1972 : Bachelor of Science, St. Francis Xavier University  
 1974 : Bachelor of Engineering (Electrical), Technical University of Nova Scotia  
 1978 : Westinghouse Applied Protective Relaying, Newark, N.J.  
 May 2006 : Offshore Survival Training (OST)

### EXPERIENCE

Summary : Extensive experience in electrical engineering design, project management and commissioning with over 35 years as a Design Engineer and Project Manager in Oil & Gas, Industrial and Power Utility environments.

#### Detailed

2006 – 2010 : **ENCANA CORPORATION**  
**Position: Electrical Engineering Lead & Technical Integrity Group Regulatory Lead**  
**Project: Deep Panuke Development Project**  
**Location: Halifax, NS**

2008 – 2010 : **EXXONMOBIL NEFTEGAS**  
**Position: Heat Trace Specialist Consultant**

- 2004 – 2006 : **EXXONMOBIL CANADA PROPERTIES**  
**Position: Electrical / Telecommunications Engineering Lead**  
**Project: Green Field and Brown Field**
- Responsible for engineering development of Compression Project Field electrical engineering including Green Field and Brown Field designs.
  - Direction of Consultant Engineering electrical staff to achieve compliance with Company Specifications and Offshore Regulatory requirements.
  - Engineering support of Construction and Commissioning to achieve scheduled Delivery and Start-up of Compression Platform.
- 2001 - 2004 : **EXXONMOBIL CANADA PROPERTIES**  
**Position: Electrical / Telecommunications Engineering Lead**  
**Project: Alma & South Venture Satellite Platform**
- Responsible for engineering development of Alma and South Venture Satellite Platform Projects.
  - Direction of Consultant Engineer designs in compliance with Company Specifications and Offshore Regulatory requirements.
- 2000 – 2001 : **SABLE OFFSHORE ENERGY INC.**  
**Position: SOEI Lead Electrical Engineer**  
**Project: Sable**
- Onshore and Offshore Operations.
  - Operational troubleshooting, electrical design, Project co-ordination and training development.
  - SOEI electrical review engineer for Venture # 3 generation upgrade.
- 1998 - 2000 : **SABLE OFFSHORE ENERGY PROJECT**  
**Position: Lead Electrical Commissioning Engineer**  
**Project: Goldboro Gas Processing Plant, Pt. Tupper Fractionation Plant, NGL Pipeline, North Triumph Offshore Facility**
- Developed commissioning and Safe Work programs, performed Factory Acceptance Testing reviews, and managed an electrical commissioning staff of forty personnel.

- 1997 - 1998 : **STORA PORT HAWKESBURY LTD.**  
**Position: Electrical Project Co-ordinator**  
**Project: TMP/SC Paper Development**  
**Location: Port Hawkesbury, NS**
- Engineering, Construction and Commissioning of power systems (138 kV, 13.8 kV, 4.16 kV, 600 V) associated with \$750 M. world class TMP/SC Paper development.
- 1995 – 1997 : **LITTLE NARROWS GYPSUM**  
**Position: Project Manager**  
**Project: Equipment Maintenance Facility & Power Substation**
- 1994 : **SCOTT MARITIMES LTD. (KIMBERLY CLARKE)**  
**Position: Electrical Design Engineer**  
**Project: 50 MVA Power Substation**
- 1993 : **LASMO CORPORATION**  
**Position: Electrical Design Engineer**  
**Project: Rowan Gorilla III Topsides Shelters**
- 1987 - 1991 : **STRUM ENGINEERING ASSOCIATES LIMITED**  
**Position: Manager of Branch Office**  
**Location: Sydney, Nova Scotia**
- Involved in electrical engineering design, project management and industrial site operational assistance.
- 1981 - 1987 : **NOVA SCOTIA POWER CORPORATION**  
**Position: Operations Transmission/Distribution Engineer**
- Responsible for transmission/distribution operation and maintenance and technical direction of operations/maintenance staff.
- 1974 - 1981 : **NOVA SCOTIA POWER CORPORATION**  
**Position: Testing and Commissioning Engineer**
- Responsible for site installation and energization of the high voltage transmission and generation projects.

## Area Manager Candidate #2– HVdc Specialty Installations &amp; Switchyards

[REDACTED]

## B.Sc. (Eng), C. Eng FIEE (FIET), FEANI, FIDE, MIEEE

### Professional Summary

[REDACTED] is a Professional Engineer with more than 40 years experience in Electrical Engineering roles of a progressively responsible nature such as Electrical Consultant, Project Engineer and Supervisory Electrical Engineer. [REDACTED] has extensive experience in design, project management and supervision of electrical systems, including for power plants..

### Education

London University, Royal Military College of Science, Shrivenham; *B.Sc. (Eng.) – Honours Degree in Electrical Engineering; 1970*

### Related Training/Courses

H2S & BA Course (Fire Service College)  
East Midlands Electric (Utility) Authorised Person HV switching course

### Memberships/Certificates

- C Eng; Chartered Engineer
- FIEE; Fellow of the Institution of Electrical Engineers (now FIET).
- Eur Ing Group 1; Member of the European Federation of National Engineering Associations – FEANI
- MIEEE; Member of Institute of Electrical and Electronic Engineers
- CIGRE; Member of UK organization
- FIDE; Fellow of the Institute of Diagnostic Engineers

### Computer Skills

- Windows XP, Outlook, Word, Excel, SKM (PTW32), DAPPER CAPTOR, -ISIM, ERACS, ETAP, IPSA, MS Project, Visio, PowerPoint, MS Sharepoint, PRODOM(Total SA), DMS

### Experience

#### **Anadarko Inc. AC**

**Dubai & Sharjah UAE**

**April 2009 – Present**

#### **PMT Supervisory Electrical Engineer**

- Supervisory Electrical Engineer of EPC by Petrofac, for El Merk Project Algeria, Oil Field Berkine Basin CPF and associated gas facilities (240,000 BPD). Electrical supervision of Poste El Merk 220/30kV 240MVA Grid s/s EPC Siemens.
- Responsible for electrical supervision of Flow Gathering Stations & Gas/Water – Injection Wells EPC at ABB in Milan, and Export Oil, Condensate & LPG pipelines EPC at Bonatti , Fano.
- Interfacing for tie-in to the TRC facilities at Gassi-Touil and PKO.
- Supervision of 220kV & 30kV ohls EPC Kahrif (Sonelgaz) and Supervision of Industrial Base & 400 person BdV Camp EPC by Bentini , Faenza

## Area Manager Candidate #2– HVdc Specialty Installations &amp; Switchyards

**Total SA; Gazprom & Statoil Partners**  
**Shtokman LNG Plant FEED**  
**July 2008 – April 2009**  
**PMT Electrical Consultant**

**La Defense Technip offices, Paris**

- Supervised FEED electrical/control design for the SHTOKMAN onshore LNG Plant based on the APCI C3/MR process with electrical VSD (LCI) Compressors. 600MW projected loading and including the GTGs Power Generating Unit for Phase 1 and planned 1,400MW tie-in to a new KOLA Nuclear generating plant for subsequent phases.
- Requires use and application of PUE and GOST standards/Certificates, IECEX Certification and Gap Analysis of Russian vs IEC Recommendations. SOW – all electrical Utilities/ Networks equipment at 330kV, 220kV, 110kV, 35kV, 10kV, 660V & 380/220V Distribution and Process drives etc.
- Winterization for low ambient of minus 39°C. LNG & Condensate Storage and new Loading Jetties included.
- Offshore FP electrical co-ordination Russian Maritime Registry of Shipping (RMRS) Rules.

**First Calgary Petroleum Ltd. (now ENI)**  
**FEED & EPC ITT**  
**April 2007 – June 2008**  
**PMT Electrical Consultant**

**MLE Algeria**

- PMT Electrical Consultant in FCPL London Base and MLE Algeria FEED Contractor (GENESIS) supervising design for EPC ITT and EPC Bidders Clarifications.
- FEED & EPC ITT for a Natural Gas, Condensate and LPG processing and Export Facility.
- Clarifications and evaluations of EPC Bids.
- Acting Instrument & Telecoms Supervisor January – April 2008.

**ExxonMobil DC**  
**December 2006 – February 2007**

**Houston, TX**

- Mobilized to AK offices in Houston by EMDC, TX to carry out electrical
- Design Review of Offshore LNG unloading/regasification by ORV, ALNG Facility offshore Adriatic.

**ExxonMobil / Qatargas**  
**May 2005 – November 2006**  
**PMT Electrical Consultant / Supervisor**

**Chiyoda offices in Yokohama and Paris (Technip)**

- Advised on power and control and drives required for QGII LNG Plant and electrical systems 132/66/33kV/LV systems, six Frame 9 GT (GE-NPignone) refrigerant compressor drivers on APCI trains (AP - X process with N2 sub-cooling.), 6x15MW (pk. 60MW) four winding synchronous motors/generators with IGBT Siemens power electronics two quadrant control for Starter/Helper and Power Generation duties maximizing GT duty point, four Mitsubishi 44MW STGs, Frame 6 GTG. Siemens GIS 8DN8 & 8DA10 (33&66kV), ABB 6.6kV & LV switchgear, ABB ECS & PMS.
- Three LNG Berths Power and Supervision of Telecomms packages design including IP Telephony, OTN (Siemens V3), UHF/VHF radio (Motorola), PA/GA, CCTV, Hot Lines & Ship-to-Shore Marine Comms and ESD.
- Responsible for Supervision of Telecoms at Technip.



## Area Manager Candidate #2– HVdc Specialty Installations &amp; Switchyards

**Petrofac Ltd / Anadarko Association – Sonatrach**  
**August 2004 – April 2005**  
**Electrical Consultant and Project Engineer**

- 220/30kV grid substation and 220kV over-head lines.
- Production of all ITT documents including 220kV GIS, 220/30/10.5kV 120MVA transformers, 30kV switchgear, substation digital control system, power line carrier SSB system.
- Electrical Consultant and Team leader on EAC integrated team for El Merk Block 208 project Algeria 250,000bbd Oil and Associated Gas trains, NGLs and LNG trains & 160 Wellheads.
- Responsible for writing of all Philosophies, Design Criteria, Studies, Specifications, Project Electrical Procedures, Load Lists, ICSS integration Construction and Commissioning procedures and preparation of ITT package for competitive FEED – EPC by three International Contractors – awarded to KBR.

**Burlington Resources Inc.**  
**My 2000 – May 2004**  
**PMT Engineer**

- Power and Control Systems for 220/60/5,5/0,4kV system FEED by ABB Lummus and EPIC design based in Paris Ruil-Malmaison & Colombes by ENTREPOSE Paragon-Litwin for the Berkine Basin – Algeria MLN GOSP –60000BPD . 10MW Power Plant (2x5MW CENTRAX), 2x8MW electric drives HP/Re-Injection Gas Compressors-Nuovo Pignone. UK base at Canary Wharf Office London.
- Supervised Design (The Hague and Paris) and Field trips to Hassi Messaoud, MLN, RKF and HBNS. Supervising Electrical Commissioning Engineer on-site MLN January 2003 – June 2004.
- Operations support and implemented Management of Change.
- Conceptual design for phase 2 MLSE FEED to increase MLN capacity to 120,000BPD.
- Supervised GENESIS OIL & GAS, GRANHERNE & MOTT MACDONALD for design of CALDER offshore, Barrow Terminal de-sulphurization plant and Anglesey 540MW CCGT power plant ITT alternative design.

**London Electricity Ltd – EDF**  
**May 2000 – January 2002**  
**Consultant / Project Engineer**

- Responsible for Primary Distribution for Terminal 5:- 150MVA Bulk Supplies (300MVA installed) to Heathrow Area.
- Project Management of NGC, Scottish & Southern Energy plc tie-in at Laleham, Surrey, UK 275/132kV BSP, new 132/33kV BSP substation on the A3044 and Detail Design of two 33/11kV substations with four 45MVA 33/11kV transformers and embedded 150MW CHP Plant.

**Granherne (KBR)**  
**December 1997 – April 2000**  
**Electrical Group Leader / Consultant / Lead Engineer**

**Shell Gas Direct**

- Responsible for surveys, conceptual design to P/5, costing and ITT production for a SHELL POWER 750MW CHP Plant (Frame 9/ABB26) in the UK Stanlow refinery.

**Mossgas**

- E-M Field (RSA) Lead Engineer detailed design- Additions to existing platform F-A 4MW MEG heating, 3.3kV&380V switchgear and new Subsea Wells Control Buoy.

**ELF**

- Amenam field (Nigeria) supervision of conceptual design.

## Area Manager Candidate #2– HVdc Specialty Installations &amp; Switchyards

*Qoubba Consortium*

- Consultant responsible for 80MW 30/5.5/0.4kV electrical design

*BP/Sonatrach In Salah Gas  
Lead Electrical Engineer*

*Algeria*

- Integrated team with BP & Sonatrach/In Salah Gas- responsible for Conceptual designs and cost estimates.

*Anadarko*

*Algeria*

- Involved in studies for Berkine Basin developments 220kV grid and 300MW PowerPlant.

*General functions*

*Power System Analyst (PC based)*

- Wrote Design Basis and FDS for PMS & Net Control systems.
- Prepared manhour estimates for bidding new work.

*Kvaerner Oil & Gas*

*Hydrocracker Suez Project*

*September 1997 – November 1997*

*Principal Electrical Engineer*

- Project Management Contractor team on new Hydrocracker for NPC Suez, Egypt.
- Front-end Design of 11/6.6/0.415kV 50MVA system, Key SLD's, writing Specifications & Data Sheets for static and rotating equipment, VSDs System Power Analysis (DAPPER PTW32), Control and Distribution Philosophy.

*Bechtel Inc.*

*Kazakstan*

*Chevron oil refinery (TCO)*

*November 1996 – August 1997*

*Lead Electrical Engineer*

- New 110kV, 35 & 10kV networks, 4-100MVA 3 winding transformers, 10kV, 660V & 380V switchgear, 380/220V 3ph UPS, 12-12MW GT power plant, 110/10kV intake upgrade tie-ins, new 100MVA 35kV and 10kV feeders, electrical equipment for debottlenecking train additions including LURGI de-sulfurization plants and electrical rooms.
- Site surveys.
- Prepared MR's & PO's.
- Supervised sub-contractor (PBP).
- Designed field equipment to withstand driving snow and sand and temperature extremes of minus 45 to plus 45 deg C, particularly motors and switchgear.
- Coordinated "passports" for Vendor Data and obtaining Design Institute Approval.
- Attended meetings with Kazak Utility for interface with 110kV supplies from Atyrau grid.

## Area Manager Candidate #2– HVdc Specialty Installations &amp; Switchyards

**BHP****Point of Ayr Gas Terminal  
February 1996 – October 1996  
Electrical Specialist**

- Continuing offshore Operations engineering support prior to Start-Up of 1.7GW CCGT Power Station at Connahs Quay.

**September 1994 – February 1996  
Construction & Commissioning Engineer**

- Transfer to BHP team for ongoing project, engineering, construction and commissioning phase at London base, on site at Heerema Hartlepool yard, and offshore commissioning.
- Responsible for LM6000 GT driven generators, VSDs on export gas compressors, offgas/re-injection gas compressors, 13.8kV systems, stripping gas compressors and ABB SCS 90 network control system, ABB SAMI Downhole Pumps. (VSDs)
- Responsible for electrical systems installation on Offshore FSO Storage Tanker (145,000 m<sup>3</sup>) to LRS rules.

**Brown & Root  
Douglas Production Platform, Vessel Conversion (Morecambe Flame), Wellhead and 3 Satellites  
April 1992 – August 1994  
Principal Engineer**

- Designed electrical generation and distribution systems, 2 - LM6000 42 MW 60MVA units with Waste Heat Recovery, 17MW and 4 MW export gas and offgas/re-injection gas variable speed compressors.
- Designed ABB SCS 90 Substation Control System with Fibre-Optic Bus (SPABUS) and implementation of MODBUS and ANSI X 3.28 applications multiple database.
- Front end conceptual design.
- Wrote electrical design philosophy, electrical control philosophy and procurement specifications, production of manhour estimates and manpower histograms for detail design.
- Responsible for gas turbine generators and 13.8kV/3.3kV switchgear.
- Gas and oil production with ABB VSD down-hole pumps.

**British Gas  
April 1991 – April 1992  
Client Engineer**

- Electrical systems design for British Gas Easington Terminal Rough Enhancement Project.
- New 6.6kV/415V substation and compression train.

**Brown & Root Amoco  
October 1988 – March 1991  
Principal Engineer**

- Systems design for Amoco CATS platform (Everest, Lomand and Riser) and onshore gas terminal.

**British Petroleum  
October 1988 – June 1989  
Project Electrical Engineer**

- National Standard, Kidderminster 4.5MW, 11kV CHP plant (multi-discipline).

**Inspectorate Ltd / Cern  
June 1987 – September 1988  
Lead Electrical Engineer**

## Area Manager Candidate #2– HVdc Specialty Installations &amp; Switchyards

- Led 12 engineers and technicians supervising the electrical installation by AEG at CERN, Geneva (European Organization for Nuclear Research) – Large Electron Position system.

***Brown & Root******Great Man-Made River Project******March 1981 – May 1987******Lead Engineer******Libya***

- Systems design for 220kV, 66kV, 33kV, 11kV and 380V generation, transmission and distribution.

Requirement Details:

Position:	Area Manager – HVdc Specialty Installations & Switchyard Scope
Requirement Reference:	
Requested by:	[REDACTED]

Candidate Details:

Proposed Candidate:	[REDACTED]
Point of Origin:	Calgary, AB
Availability:	2 weeks after acceptance

**Name:****Discipline:****Electrical Projects Engineer****Summary:**

Electrical Specialist, EPC with more than thirty years' experience in areas of Gas Processing, Sulfur Recovery, Water Injection Facilities, Refrigeration Plants, Heavy Oil , Water Re-injection Facilities, Oil Refineries, Compressor Stations, Mining, Pipelines, Fire Protection Systems and Static Vars Compensation Units for Electrical Substations. I have international work experience in Libya, Saudi Arabia and the United States.

Professional Development

CSO – ATCO Electric Contractor Safety Orientation (Expiry July 2010)  
2009

OSSA – Oil Sands Safety Association, Certificate # FP0200503 2007

CSTS – Construction Safety Training System, Certificate # 722698  
2004

Fall Arrest Training - Certificate # KBR3250 2003

QA/QC Diploma, SNC-Lavalin Inc., Calgary, Alberta, Canada 1997

H2S Alive, Petroleum Industry Training Service, Calgary, Alberta,  
Canada 1995

AutoCAD R13 complete with Windows, 1994

Southern Alberta Institute of Technology (SAIT), Calgary, Alberta,  
Canada

WHMIS, Shell Caroline Gas Gathering, Calgary, Alberta, Canada 1992

Time Management and Communication, U of C, Calgary, Alberta 1990

Allen Bradley PLC (Part 1 and 2), Allen-Bradley, Calgary, Alberta,  
Canada 1990

AutoCAD, B. Moore Enterprises, Calgary, Alberta, Canada 1987

Intergraph Systems, SNC/FW Ltd., Montreal, Quebec, Canada 1985

Detronics Fire Systems, Denver, Colorado, United States 1984

Fire and Gas Systems (Offshore/Gas Plants), 1983

**Education:**

Electrical Inter-Provincial Journeyman 1967 – 1970

Southern Alberta Institute of Technology

British Columbia Institute of Technology 1965 – 1966

Certified Electrical Technologist

Notre Dame University, Nelson, B.C., Canada 1964

Enrolled in Physical Education

**Professional Affiliations:**

Honorary Member, International Brotherhood of Electrical Workers

**Experience:**

Sep 2010 – Jan 2011

**BC HYDRO****Site Manager-Contract**

*550 kV GIS Replacement*

**Site Manager – Mica Dam Phase 2**

Review Site Contract, Scope of Work documents, IFC Construction drawings and Site Quality Plan. Manage Principal Contractor duties,

ensuring CEC standards and BC Hydro Engineering specifications are met. Receive Site Material, approve invoices and liaison with BC Hydro on all site based matters and activities.

Apr 2010 – Aug 2010

**Areva T&D Canada Inc**

**Site Manager-Systems Business-Calgary**

*High Level SVC - 60 MVA Project*

**Site Manager – High Level**

Review Contract and Scope of Work documents, input into and review of Construction phase Health and Safety Plan and Site Quality Plan. Travel to; inspect and view essential project specific plant and equipment and manage the overall Construction program and budget. Discharge Principal Contractors' duties in line with CDM regulations and ensure full compliance with all SBC procedures and Quality Plan. Manage Site Material and Invoice approval and liaison with the client, (ATCO Electric) on all site based matters and activities.

Jun 2009 – Mar 2010

*Little Smoky SVC - 200 MVA Project*

**Site Manager – Valleyview**

Review Contract and Scope of Work documents, input into and review of Construction phase Health and Safety Plan and the Site Quality Plan. Travel to; inspect and view essential project specific plant and equipment and manage the overall construction program and budget. Discharge Principal Contractors' duties in line with CDM regulations and ensure full compliance with all SBC procedures and Quality Plan. Manage Site Material and Invoice approval and liaison with the client, (ATCO Electric) on all site based matters and activities.

Mar 2007 – Nov 2008

**SNC-Lavalin Inc**

**Electrical Specialist –Chemicals and Petroleum Unit-Calgary**

*CNRL Horizon Secondary Up-grader Project*

**E/I Construction Lead – Fort Mc'Murray**

Responsibilities included installation and pre-commissioning of Siemens 5kV and 35kV Switchgear, prepare Construction Work Packages, attend Engineering site coordination meetings, review/answer Requests for Information, Design Change Notices, final check of Electrical/Instrumentation punch list items and prepare and review turnover documents for CNRL.

Feb 2006 – Feb 2007

**Albian Sands Project Group**

**Electrical Project Engineer – Fort Mc'Murray**

Cable replacement in the Froth Treatment Chiller Compressor area, check all power equipment layout drawings for the Contractor's Buildings complex, design and purchase a 60HP redundant VFD for the Flare Stack Blower Motor which was commissioned during the

2006 Plant Turnaround, prepare a cost estimate for a proposed Silo Air System, design and purchase Variable Frequency Drives for Chemical Injection skids in the Utility Area, design, purchase and supervise the installation of Heat Trace for a temporary Water Filtration system, Gland water and temporary Diesel Pump area, design and purchase of all electrical materials for a Warehouse Loading ramp, Modular lunchroom and Co-generation Office complex.

Nov 2005 – Jan 2006

**Syncrude Canada Ltd – Up-grader Expansion Project UE-1**

**Electrical Site Engineer – Fort Mc'Murray**

Design and purchase a new UPS System for Plant 18-2 Seal Gas control panels for the critical pumps in the LGO Aromatic Saturation Unit, complete requests for engineering Change Notices, Requests for Information, Field Change Notices and check and review all vendor supplied equipment for all new buildings plant wide.

Nov 1997- Nov 1998

**Saudi Aramco – NGL Switching Station - Uthmaniyah Gas Plant**

**Field Project Manager**

Interface with Plant Engineering proponent, check Electrical drawings and Material specifications, direct and supervise the Electrical subcontractor and check all Electrical and Instrumentation installations for the project.

1991 – 1992

**Shell Canada Inc. - Caroline Gas Plant and Central Compressor Station**

**Electrical Technician/Inspector**

Design Lead in the office, monitoring/checking Electrical and Instrumentation installations in the field, Assisting during the pre-commissioning and start-up phases and checking all as built drawings for correct Markups before sending them back to the home office.

Feb 2004 – Oct 2004

**Syncrude Canada Ltd – Aurora Mines S.W. Replacement Project**

**Senior Electrical Checker – Fort Mc'Murray**

In the Crusher area check all lighting including High Mast, Krupp Inc. vendor supplied lighting drawings, power/control, cable trays and grounding layouts and Instrumentation layouts with associated cable schedules. In the Material Handling area design all walkway lighting, power cable tray loading calculations, lighting feeder calculations, 600 V and 5 kV Single Line Diagrams, and 600 V and 5 kV size and load calculations.

Nov 2003 – Jan 2004

**Husky Oil Operation Ltd – Clean Fuels Project**

**Electrical Design Lead – Prince George, B.C.**

Organize a field trip to check locations for a new Switchyard, MCC/Switchgear Building and Transformer yard. Establish routing for



the new 5 kV motors and layout for the 69 kV Switchyard, MCC/Switchgear Building and Transformer yard.

Feb 2003 – Oct 2003

**Snycrude Canada Ltd - Up-grader Expansion Project UE-1**

**Electrical EHT Coordinator – Fort Mc'Murray**

Develop Electrical Heat Tracing contract documents, check Tracer Industries Construction Work Packages, material requisitions for EHT/Controllers and purchase orders for EHT bulk materials and services.

Dec 2002 – Jan 2003

**Saudi Aramco - Rabigh Refinery Safety and Control System**

**Electrical Design Lead**

Field trip to Rabigh, Kingdom of Saudi Arabia, to gather information for the DCS system replacement, prepare Electrical specifications, issue for quotation and purchase of all new UPS Systems, cabling including Fiber-Optics, field Terminal Boxes and final preparation of the detailed design package, including the Scope of Work.

July 2001 – Nov 2002

**Saudi Aramco – E-W Pipeline SCADA System and Yanbu Crude Oil**

**E/I Control System Lead**

Terminal Control Systems Replacement

Develop a preliminary design package for a new DCS system, interface with the proponent in Saudi Arabia, and preparation of Electrical and Material specifications and design of the new DCS system.

1995 – 1996

**Saudi Aramco – Uthmaniyah Gas Plant Control System Up-grade**

**Design**

**Console**

**Lead**

Console lead on Shedgum and Uthmaniyah Gas Plants Control System Up-grader projects

2000 – 2001

**Delta Hudson Engineering Ltd**

**Principal Senior Designer-Calgary**

*Manitoba Hydro Combustion Project*

**Electrical Design Lead – Brandon, Manitoba**

Power and control layout for two 135 MVA Gas Turbine/Generator units, Generator step-up Transformer yard, design and layout of cable bus ducts, layout 480 V, 5 kV and 13.8 kV Switchgear/MCC Rooms, prepare all cable schedules and preparation of the Electrical Heat Tracing package.

1998 – 1999

**Alliance Aux-Sable Liquid Extraction Plant**

**Design Lead**

Prepare cost estimate documents, layout cable trays on modularized pipe racks, layout 138 kv Switchyard,  
Layout all MP Husky cable bus ducts, layout several high voltage Substations, final checking for DCS/SIS  
Interface to the Electrical packages and overall design and checking of IFC drawing package.

1994-1995

**DPH Engineering Inc****Senior Design Technician-Calgary**

*Cavalier Gas Plant & Gathering System and Thompson Lake Gas Plant & Battery*

Prepare Electrical specifications and Material requisitions, control panel checking with client approvals.  
Conduct site acceptance tests, inspect Electrical installations, pre-commissioning, startup and as built completion.

1993 - 1994

**Alberta Natural Gas****Electrical Checker-Calgary**

Checked Moyie, Elko and Crowsnest Compressor Stations, Electrical and Instrumentation  
IFC drawing packages.

1992 – 1993

**Waha Oil Company; Tripoli, Libya, North Africa****Electrical Design Specialist**

Substation engineering and design, control system upgrading, design airport hanger and runway  
Lighting, develop Motor Control Schematics and Plant Interconnection drawings, Electrification  
of production wells and bid packages for various Gas Turbines replacement.

1989 – 1991

**Colt Engineering Corporation****Project Manager-Calgary**

*Union Gas Lobo Compressor Station Project*

1979 – 1982

**Senior Electrical Coordinator-Calgary**

I supervised several Electrical Designers and Drafting personnel. Also responsible to check and issue all Electrical and Instrumentation drawings for Construction.

1988 – 1989

**Novacorp International****Electrical Designer/Manager**

I managed and supervised several Electrical Designers and Drafting personnel for projects in Ontario for Union Gas. Also responsible to

check and issue all Electrical and Instrumentation drawings for Construction.

1984 – 1988

**SNC/Foster Wheeler Limited**

**Electrical Design Technician-Calgary**

Multiple projects that included bid package documentation, cost estimating for several projects, design lead for these projects to IFC drawing completion and assisting in the field to complete the projects to As-built stage.

1982 – 1984

**Wormald Fire Systems**

**Project Manager Special Hazards-Calgary**

Dome Petroleum Offshore Drilling Rig Fire/Gas System, Beaufort Sea  
Gregg River Coal Preparation Plant Fire/Gas System, Hinton, Alberta

- Experienced in management of HVDC projects, including substation upgrade, transmission line, switchyard installations.
- Extensive expertise in construction management in electrical high voltage stations.
- [REDACTED] also has experience in marine offshore construction.

**CV**

**PROFESSIONAL OBJECTIVE**

To secure a responsible position in Construction Management, in which my experience and personal abilities will mutually allow for optimum growth opportunities.

**CAREER PROFILE**

- A competent and results-driven professional with over 20 years of experience and a strong record of achievement in providing the necessary project supervision and personnel motivation expertise to ensure streamlined operations, customer satisfaction, and increased proficiency.
  - Expertise includes: Commercial and Industrial Construction; Construction Knowledge; Taking projects to completion within or under budget guidelines.
  - Excellent communicating, listening and negotiating skills, couples with the ability to establish and maintain rapport with all levels of personnel, subcontractors, engineers, architects, inspectors, general contractors, tradesman, management and clients.
  - Proven background at high levels of personnel development and training, encompassing: leadership, team building, planning, organizing, and problem-solving, all of which realized significant contributions to bottom-line results.
- People Oriented-Service Oriented-Results/Profit Oriented**

**PROFESSIONAL EXPERIENCE**

- 2009-2010      Tri-Technic, Sonora, CA  
**Senior project Manager**  
 Manage the day-to-day operational aspects of multiple projects. Oversee construction personnel working on HVDC projects, this included all phases of construction. Transmission lines, substation upgrades and related tasks. Review high-level deliverables across projects. Implement project review and quality assurance procedures in accordance with our methodology to ensure profitable and successful execution of projects measured by goals and customer satisfaction.
- 2009            Enerfab/Alliant Energy (Aerotek)  
**Electrical & Instrumentation Superintendent**  
 Provide support and direction to Electrical Subcontractors on a new SCR, bag-house and ammonia system for Alliant Energy Lansing Iowa Power Plant. Responsible for all schedules, budget, startup commissioning, and change order review and approval. Responsible for client and contractor relationships.
- 2008-2009      Kiewit Energy (MEC)  
**Project manager / Electrical Superintendent**  
 Responsible for all aspects of day to day operations, overseeing the installation of all electrical as well as a wide range of project management and construction related responsibilities, overseeing productivity and production. Also involved in work packs, work plans, RFP's, contractor coordination and design. Worked on an 800MW coal fired power plant.
- 2007-2008      Parsons Electric, St. Paul, Mn  
**Electrical / Instrumentation Project Manager**  
 Responsible for day to day operations of industrial projects, estimating, rfp's, job costing, labor reports, scheduling, supervising installation of all electrical. Projects :Thearoldson Ethanol Plant, Brainerd Substation (brown field) Bridgeport Ethanol Plant
- 2006-2007      ICM INC, Colwich, Kansas  
**Electrical / Instrumentation Superintendent/Project Manager**  
 All aspects of day to day operations, overseeing installation of all electrical, as well as other trades, estimating, proposals, bid documents, developed job budgets, consultation at other projects to coordinate grind dates and completion dates of electrical. Projects: Albion Ethanol Plant and substation (Green field), Greenville ethanol plant and Substation. Clymers ethanol plant.
- 2001-2006      NORDIC ELECTRIC INC./NORTEC, Las Vegas, Nevada  
**Operations Manager/Chief Estimator**  
 Performed a diverse range of project management/construction related responsibilities to include, but not limited to: overseeing both productivity and performance of projects and daily operations, job costing, collections, and subcontractor coordination, resulting in highly efficient and smooth flowing project operations.

**EDUCATION** Continuing Education/Specialized Training:  
USAR Electronics Course  
On the job training Electrical Apprentice.

**Training:**

**Swanson Flow/ Bio fuels**

Instrumentation training.  
Calibration, troubleshooting, and Basic DCS interfacing.

**McCormick**

Estimating 1&2

**Kiewit Training**

Ethics, contract management, LOTO, First Aid and CPR.

**IBEW Training**

High Voltage Spicing, Conduit Bending, Lift Training, PLC Training, and Safety training

**Other Training**

Microsoft Outlook, Microsoft Focus, the 7 Habits of Highly Effective Managers, Mike Holt Electrical Training, Penn Foster Electrical Engineering Online course. Safe gulf, and water survival course. Currently pursuing an Electrical Engineering Degree through online class at various Universities.

**Project List:**

LADWP-ABB HVDC Adelanto CA and Delta Utah (2010)  
Allaint Energy SCR and Bag-house addition. (2010)  
Iatan Power Plant 800MW Coal Fired. (2009)  
Aurora Ethanol Plant. (2009)  
Thearaldson Ethanol Plant. (2008)  
Greenville Ohio Ethanol Plant. (2007)  
Clymers Indiana Ethanol Plant (2007)  
Albion Michigan Ethanol Plant (2006)  
Thunder Horse Hurricane recovery (2005)  
Various Border Station upgrades. (1986-1991)  
Assisted living Projects. (1992)  
Various Schools, Hospitals and Casino projects. (1986-1992)  
Apex Generation Station NV. 500MW Combined cycle (Gas) (2002)  
North Las Vegas 2 119MW Combined cycle (Gas and Oil)  
Black Mountain Power Plant  
Mohave Power Plant (1992)  
Clark Station (1993)  
Moapa Power Plant (1994)  
Eldorado Energy Power Plant (1999)  
Lenzie Power Plant 600MW (Gas) (2006)  
Silverhawk Power Plant 570MW (Gas) (2003)

Agency Ref: 90475 / 90479

## ██████████, P.Eng

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**Position** Area Manager Overland Transmission / Area Manager HVDC Installations & Switchyards

**Availability** 30 days

**Resides** Calgary, Alberta (currently working in California)

**Nationality** Canadian

**Qualifications** 1985 B.Sc. Civil Engineering, University of Calgary, Calgary, Alberta

### Professional Development

- 2004-2005 "Best Practices Structural Steel Erection" Co-Author
- 1994 Lead Assessor of Quality Systems Course A4252, Certificate No.1908944
- 1973-1977 "B" Pressure Welder, First Class Journeyman Welder Apprenticeship Program, Southern Alberta Institute of Technology, Calgary, Alberta, Canada

**Memberships**

- Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA), Registration No. M43453
- Welding Institute of Canada (WIC)

**Summary** ██████████ P. Eng. is a Senior Project Engineer with 30 years related domestic and international experience in the Energy Industry including; power transmission, heavy civil works, oil and gas facilities, enhanced oil recovery facilities, steam flood, water treatment, and pipelines. ██████████ has strong Project Construction/Engineering Management skills with excellent knowledge of civil, mechanical, piping, and instrument/control. ██████████ has expert knowledge regarding commissioning, start up and certification of plant and equipment. ██████████ is capable of planning grass roots construction projects including infrastructure for remote locations. Projects included; process modules fabrication and assembly, production barge fabrication, installation of onshore and offshore facilities, access roads and rig and facilities sites civil works, **HV power transmission lines, HV/MV/LV electrical sub-stations**, oil products load-out and dock and jetty refurbishment, onshore and offshore dredging, onshore and offshore piling, offshore sewage pipeline, petrochemical storage and distribution terminals, oil field production facilities and up-grader, enhanced oil recovery steam flood and high pressure water and gas re-injection facilities and pipelines, condensate and oil and gas gathering systems, transmission and distribution pipelines and refined products pipelines.

### Languages

English, French (social), Russian (social).

### International Experience

China, Poland, Kazakhstan, Kenya, Kuwait, Nigeria, Russia

**Employment History:****2009-Present Heavy Oil Field Pilot Facilities Engineer (ETC)  
Chevron Corporation, Engineering Technical Company (ETC)****Heavy Oil Unit, Bakersfield CA**

- Utilize my extensive knowledge of Chevron's propriety heavy oil thermal production facilities operations, processes and procedures, particularly with constructing, start up, commissioning and trouble shooting , in order to support the Chevron Heavy Oil Field Piloting Team: (US\$100MM to \$350MM)
  - Chevron Facilities Engineer Responsible for: collaborating with and supporting the Business Unit (BU) in designing and executing major field pilots; working with a multi-functional team to support BU piloting efforts including providing pilot design, surveillance, operations and performance evaluation support: providing technical support to Chevron operating companies worldwide in the design and optimization of enhanced heavy oil field piloting projects; participate as a technical resource on project peer reviews, stage gate process reviews, and assist with heavy oil recovery projects.
  - Projects are "Incident and Injury Free" environments utilizing the latest Safety in Design , Human Factors Engineering, and Behavior Based Safety Programs and training.

**2008-2009 Construction Manager (EPC)  
Petro Canada Oil Sands Inc.****MacKay River Heavy Oil (SAGD) Expansion; MacKay River Alberta**

- 43,000 BOPD Steam Assisted Gravity Drain Facilities; Pipe Racks and Equipment Modules, Evaporators and Water Treatment, Boilers, Process and Steam Piping, Tanks Vessels, Electrical, all associated facilities and interfaces (Reimbursable; \$500MM/\$1.5B)

**Fort Hills Heavy Oil Facility Froth Treatment Unit; Fort Hills Alberta**

- 180,000 BOPD Heavy Oil Froth Treatment Facilities; 250 Pipe Rack and Equipment Modules, Froth Tanks, Settlers, Spheres, Piping, Electrical, all associated facilities and interfaces (Fixed Fee Unit Rate; \$700MM/\$1.35B)
  - Petro Canada Project Professional Responsible for: All onsite and off site Construction and Construction Management including; construction execution and contracting strategy, constructability review, fabrication and construction contracts, and execution of direct works, planning and scheduling, cost control, construction work packages review, HAZOP, HFE, RCM, QA/QC, HSE and all related construction and operations interface management .
  - Projects were "Loss Time Management" environments utilizing the latest Behavior Based Safety programs and training.

**2005-2008 Senior Project Engineer Production Facilities/ Construction Manager (EPC)  
Chevron International Exploration and Development (PRC/CBU)****Production Facilities Group, SAC/Joint Operations; Wafra, Kuwait**

- Large Scale Steam Flood Pilot Project; 60,000BL/D Water Treatment Facilities, 500MM BTU/D Steam Generation Facilities, 33kV Power Transmission Lines, Electrical Sub-Station, Utilities and Infrastructure, off sites Fuel Gas, Water Supply and Export Oil Pipelines. (Unit Rate; US\$354M/\$10B)
  - Chevron Project Professional Responsible for: infrastructure and offsite design procurement, and installation, also Responsible for full project constructability, construction execution, contracts review, HAZOP, HFE, RCM, QA/QC, HSE and all related construction and operations issues.
  - Project was a "Incident and Injury Free" environment utilizing the latest Safety in Design , Human Factors Engineering, and Behavior Based Safety Programs and training.

**Senior Project Engineer, Construction Manager Infrastructure (EPC)  
Chevron Nigeria Limited , Escravos Nigeria**

- Escravos Gas to Liquids Project (EGTL) a Joint Venture with Chevron, SAS Oil and the Nigerian National Oil Company; Responsible for execution of all grassroots infrastructure; site preparation, off shore and onshore sand dredging, site consolidation, off shore utility and process water wells, materials and 3000 ton module receiving jetty, 540 man pilot camp, 5,300 man main works camp, heavy haul roads, security barriers, waste management, incinerators, 5000BPD potable and waste water treatment, all fuel gas and export pipelines, and electrical services supply. (Fixed Fee Unit Rate; \$550M/\$2.1B)
  - Chevron Project Professional responsible for: infrastructure and off sites design procurement and installation as well as misc. overall design and contracts review, constructability, construction execution, HAZOP, HFE, RCM, QA/QC, HSE and all related issues.
  - Project was an "Incident and Injury Free" environment utilizing the latest Safety in Design , Human Factors Engineering, and Behavior Based Safety Programs and training.

**2004-2005 SNC-LAVALIN ATP, Calgary, Alberta, Canada**

**Senior Project Manager (EPC)**

- Cordel 755S to Hansman Lake; Engineer, Design, and Construct, Hansman Lk. & Metiskow 240 KV Sub-Stn's and 100km wooden pole 240KV single circuit HV Transmission Line, including modernization and upgrade of equipment and control for 3 nos. related 240KV Sub-Stn's. (Lump Sum; CND\$30M).
  - Responsible for; All supervision and project execution; detailed design, procurement, construction, schedule and cost control. Also includes; contract and procurement strategies, contracts scopes of work, manpower estimates and project organization, as well as co-ordination and supervision of engineering, procurement , contractors and related site activities.
  - Projects were "Incident and Injury Free".

**Engineering Manager /Construction Manager (EPC)**

- SW Transmission Development ; Engineer, Design and Construct, 100km of 240 Kv double circuit 3 phase steel tower Transmission Line, 1 green field and 2 brown field High Voltage 240kV/136kV/25kV Sub-stations, 7 brown field 138kV/25kV/6kV Sub-stations upgrade, and numerous brown field SCADA/Telecoms upgrades and system modernizations (Lump Sum; CND\$90M).
  - Responsible for; All supervision and project execution; detailed design, procurement, construction, schedule and cost control. Also includes; contract and procurement strategies, contracts scopes of work, manpower estimates and project organization, as well as co-ordination and supervision of contractors and related site activities.
  - All Quality , HSE, and Construction issues. Projects were "Incident and Injury Free".

**2003-2004 Salym Petroleum Development (Shell Petroleum Development), Russia**

**Senior Project Construction Engineer (EPM)**

- Shell Petroleum Development, Moscow. West Salym Oil Field Development Project; Greenfield 300K BFPD process facility and gathering and export pipelines located in central Siberia, Russia. Project included Power Transmission Line, HV/MVC/LV Sub Stations, Export Pipelines, Oil and Gas Process Facilities, Site Access Roads and Bridges, Rig Access Roads and Sites, Fibre Optic Cable, Remote Terminal and Pumping Sub Station. (Lump Sum; US\$1.2 billion).
  - Responsible for front end engineering design (FEED) and development of project level III schedule, supervision of detailed design of facilities infrastructure, and general constructability including; temporary and permanent roads, drilling location pads, temporary



and permanent camps, metal building systems for process and operations, water wells and potable and waste water treatment, sand management and dredging 6,500K m<sup>3</sup> sand.

- Responsible for; contract and procurement strategies, contracts scopes of work, manpower estimates and project organization, as well as co-ordination and supervision of sub-contractors and site activities.

### **Senior Staff Engineer (EPC/CM)**

**Salym Petroleum Development (Shell Petroleum Development), Russia**  
**TRI-OCEAN ENGINEERING LTD., Calgary, Alberta, Canada**

- Taglu Gas Production Barge Study, Calgary, Alberta, Canada. Included Barge structure and all mounted; process, equipment, electrical, control and remote communications. The Barge and Equipment fabrication is to be carried out both offshore (Far East) and in North America. The Final assembly of Barge and Equipment shall be off-shore with transport to site by sea tug for final hook up in the Canadian Arctic
  - Responsible for the development of the modularisation, constructibility, and logistics program for the Taglu unmanned Off-Shore Gas Production Barge.
- Niglintgak Gas Production Barge Study. Included Barge structure, accommodation modules, and all mounted; process, equipment, electrical, control and remote communications. The Barge and Equipment fabrication and assembly was considered to be carried out in Korea. Barge to be transport to site by sea tug for final hook up to site facilities to be carried out in the remote Canadian Arctic.
  - Responsible for the development of the modularisation, constructability, and logistics program for the Niglintgak manned Off-Shore Gas Production Barge and onshore facilities.
- West Salym Oil Field Development Project, Salym, Russia. Project was comprised of the development of a remote 300,000 BPPFD Oil Production Facilities; 27 km 10" Gas and Water Injection Pipelines, and 130 km 6-10" Gathering System Pipelines and 147 km of 24" Export Oil Pipeline and pump station and metering terminal. 240 km temporary and permanent access roads, all civil, mechanical, electrical sub-stations 110/35/6 kV, instrumentation, telecommunications and fibre optics communications, and SCADA control system. Project was located in North Central Siberia Russia on the Ob River Flood Plain, muskeg and swamp terrain. (US\$350 million).
  - Responsible for design co-ordination, infrastructure, logistics and modularization of pre assembled units (PAU), sub-contracts scope of works, schedules, cost estimates, constructability, and liaison with Russian Design Institutes.

### **2001-2002 Deputy Project Manager (seconded from KIO to Saipem)**

**Saipem Spa, Kazakhstan**

- Saipem Spa, 24" Export Pipeline, Karachaganak Main Works Contract, Kazakhstan. Project was comprised of 640 Km of 24" Gas Condensate Pipeline (67,000 tons), pump station, terminal with booster pumps, metering stations, 35 block valve stations, and 2 intermediate Scraper Trap areas
  - Responsible for all civil, mechanical, electrical, instrumentation, fibre optics communications, and SCADA control system Responsible for all sub-contracts, mechanical completion, commissioning and liaison with Republic of Kazakhstan "RoK" government regulatory and environmental bodies. (Lump Sum; US\$200M)

### **2000-2001 Infrastructure Superintendent**

**Karachaganak (KIO), Kazakhstan**

- Karachaganak Project Development Team, Kazakhstan. Projects were; Infield Industrial Water Pipeline 16", Infield Fuel Gas Pipeline 14", Municipal Water Treatment Plant and Pump House/Water Tower (46m) and GRP Supply Mains and Distribution Network 4"-24".
  - Responsible for all civil, mechanical, electrical, instrumentation, fibre optics communications, and SCADA control system Responsible for all sub-contracts, mechanical completion, commissioning and liaison with Republic of Kazakhstan "RoK" government regulatory and environmental bodies. (Lump Sum; US\$150 million)

**1996-2000 Senior Facilities Construction Engineer/Construction Manager  
PNZ Joint Operations, KUWAIT SANTA FE ENGINEERING; Safat, Kuwait**

- Kuwait Oil Company & Saudi Arabia Texaco JV, Wafra Field, Kuwait Facilities Development Group. Projects included:
  - Eocene Facilities De-bottle-necking and Expansion, and Pipelines Project (240-430,000 BOPD, Lump Sum; US\$69 million)
  - Ratawi Facilities De-bottle-necking and Expansion, and Pipelines Project (240-430,000 BOPD, Lump Sum; \$59 million)
  - Produced Water Treatment and HP Water Injection Facilities, and Pipelines Project (250,000 BOPD US\$154 million)
  - Oil Field Facilities Reconstruction and Expansion, and Pipelines Project (50-240,000 BOPD, Lump Sum; US\$48 million)

**1987-1996 Senior Field Engineer/Quality Assurance Manager  
SNC-LAVALIN INC., Calgary, Alberta, Canada**

**Corporate Quality Manager**

- Shell Forcados Terminal, Nigeria (US\$170 million) (1994 - 1996)

**Senior Field Engineer**

- West Kenya Pipeline Extension Project; Nairobi, Kenya (US\$110 million) (1991 - 1994)

**Senior Field Engineer, Deputy Construction Manager**

- Tengiz Field Project; Kazakhstan, (US\$136 million) (1988 - 1991)

**1985-1987 Project Engineer, Estimator, Scheduler, Planner  
DILLINGHAM CONSTRUCTION LTD. Edmonton, Alberta, Canada**

- Genesse Coal Fired Power Plant; Foundations, Structural, and Architectural (\$18 million).
- Vancouver Sanitation Sewage Effluent Off-Shore Pipeline; Offshore Dredging and Install Offshore 48" by 3.8 k m Concrete coated/lined pipe (\$15 million).

**Project Engineer (1985 - 1986)**

- Shell Canada, Heavy Oil Facilities, Steam Flood & Oil Field, (CND\$135 million)
- Esso Canada, Heavy Oil Facilities, Steam Flood & Oil Field, (CND\$170 million)

**1973-1985 Construction Superintendent/Steel Fabricator/Fitter Welder  
Journeyman Building Trades, Alberta Canada**

- Process Pipe and Pipeline Welder, API Tanks and ASME Vessels fabrication and erection, Fabrication Shop Manager and Field Superintendent.

[REDACTED] **P.Eng.**  
 [REDACTED] St. John's [REDACTED]  
 +1 709 [REDACTED] (H) / +1 709 [REDACTED] (M)  
 [REDACTED]

### ***Core Skills***

*Project Management*  
*Technical and Management Coordination*  
*Contracts Negotiation and Management*  
*Multi-Disciplinary Problem Resolution*  
*Management Systems Development*  
*Marine Construction Program Execution*  
*Subsea Engineering Solution Development*

### ***Education***

**Master of Ocean Engineering**      Memorial University of Newfoundland  
**Bachelor of Engineering (Civil)**      Memorial University of Newfoundland

### ***Registration***

Professional Engineers & Geoscientists Newfoundland & Labrador (PEG-NL)

### ***Summary: Experience / Work History***

15 years continuous project execution experience on East Coast Canada mega-projects in progressively responsible roles.

### ***Employment History***

2010 - **Facilities Engineering Advisor**  
 Present      Chevron Canada, St. John's NL

- Provision of project specific support in areas of GBS design and construction, subsea engineering, project controls, subsea equipment fabrication and installation for Chevron's East Coast Canada projects
- Provision of management system support including business process development for Chevron's East Coast Canada activities
- Provision of commercial and technical oversight of ongoing non-operated projects in Eastern Canada

2006 - **Flowlines and Installation Manager, SeaRose Tieback Project**  
 2009      Husky Energy, St. John's NL

- Responsible for delivery of a \$350,000,000 CAD subsea installation including design engineering, manufacturing and installation
- Managed a team of technical and commercial professionals in stewarding the project delivery on schedule and on budget

- Responsible for management and technical and commercial oversight of both project primary EPCI contract and subcontractors for scope delivery
- Responsible for contracts negotiation for project primary EPCI contract, glory hole construction and miscellaneous support contracts
- Responsible for delivery of installation and pre-commissioning technical solutions for subsea tieback project including installation solutions evaluation, installation planning and technical documentation through FEED, tender and project execution
- Managed subsea flowline delivery and installation, tie-in and pre-commissioning of all subsea equipment for tieback project including installation of flowlines, risers, umbilicals, and subsea hardware; glory hole excavation and rock dumping campaigns

*2005- 2006*     **Project Manager, Terra Nova Moorings Remediation Project**  
Petro-Canada, St. John's NL

- Responsible for delivery of a \$60,000,000 CAD brown field subsea repair project
- Responsible for project execution and delivery including budget stewardship, engineering evaluation and execution of ROV and diver campaigns for inspection and repair
- Managed an inter-disciplinary team comprised of both contractor and owner personnel for project execution
- Responsible for contract negotiation and ongoing management for engineering services, equipment fabrication and offshore construction for project scope

*2004 -2005*     **Subsea Facilities Lead, East Coast Engineering and Technology Group**  
Petro-Canada, St. John's NL

- Responsible for technical and commercial management of a \$75,000,000 CAD contract for delivery of subsea hardware, including Xmas trees, manifold systems, control system components and miscellaneous supply for the Terra Nova project
- Responsible for negotiation of a \$150,000,000 CAD frame contract for long term delivery of subsea equipment for Eastern Canada operations
- Responsible for SURF systems engineering to support subsea projects including concept development, FEED and contracts management
- Responsible for subsea project support to Terra Nova asset including solution development, contracts management, risk evaluation, technical studies and implementation of marine construction programs

*2003*             **Flowlines, Risers and Umbilicals Lead, Terra Nova Far East Development**  
Petro-Canada, St. John's NL

- Responsible for development of contract documentation to support tender of flowlines, risers and umbilicals EPCI contract for Terra Nova Far East development
- Responsible for FEED for subsea tieback development including all flowlines, risers and umbilicals supply and installation scope
- Supported development of project procedures including mechanical completion requirements, document delivery requirements and project interfacing requirements

**2002 - 2003 Terra Nova PBSJ Repair Campaign Task Force Lead**  
Petro-Canada, St. John's NL

- Responsible for repair of a failed in-line subsea flowline weak link connection
- Responsible for development of an ROV-based solution including forensic investigation of root cause, solution evaluation, detailed engineering, full-scale prototype testing, and execution of installation campaign offshore
- Responsible for negotiation and daily management of all third party engineering, testing and fabrication contracts to complete workscope

**2002 – 2004 Subsea Facilities Engineer, East Coast Engineering and Technology Group**  
Petro-Canada, St. John's NL

- Provision of technical operational and project support to Terra Nova Development subsea team
- Responsible for engineering and technical studies in support of future field development activity for Petro-Canada
- Provision of engineering support including contract negotiation, scope development and execution support for post start-up rock dumping campaign at Terra Nova

**2001 - 2002 Engineering Lead, Subsea Connector Project Group, Terra Nova Project**  
Petro-Canada, St. John's NL

- Responsible for engineering activity including root cause investigation, materials investigation, solutions development for failed subsea flowline and Xmas tree connector repair campaign
- Responsible for engineering support for offshore construction campaign execution including change management, acceptance criteria development and operational query resolution
- Liaison with the Certifying Authority and regulatory authorities through approvals process for subsea connector repair program

**2001 Engineering Lead, Marine Operations, Terra Nova Project**  
Petro-Canada, St. John's NL

- Responsible for Terra Nova second phase offshore flowline and umbilical tie-in scope including contract negotiation, installation engineering approval, offshore construction campaign execution, documentation delivery and project closeout
- Responsible for resolution of engineering issues associated with design and fabrication and installation of Terra Nova flexible risers, flowlines and umbilicals including liaison with the Certifying Authority for Terra Nova subsea installation

**1999 – 2000 Subsea Engineer, Terra Nova Operations Group**  
Petro-Canada, St. John's NL

**1997 – 1999 Support Engineer, Technical Integration Group - Terra Nova Project**  
DORIS Development Canada, St. John's NL

***Publications***

[REDACTED]. **Subsea Developments in Extreme Ice Environments**, *Proceedings from Russian Arctic Offshore Conference*, St. Petersburg.

[REDACTED]. **Behaviour of Pipelines in Dry Sand Under Lateral Loading Conditions**, Graduate Thesis, Memorial University of Newfoundland.

[REDACTED]. **Flexural Strength Equation for Sea Ice**, *Cold Regions Science and Technology*, No. 22, pp.285-298.

**[REDACTED] B. Eng.**

**CAREER OBJECTIVE: HV DC SPECIALIST**

**SUMMARY OF QUALIFICATIONS**

- Proficient in DC & AC power systems and renewable energies as a part of Engineering Masters design project including: analysis, design, specifications and verification
- Experience in the Telecommunications industry standards (Core Infrastructure)
- Experience with project work: creating proposals, adhering to timelines, inventory control, resource / personnel management and presentation to clients
- Self-motivated leader with the ability to work as a functional member of a team

**PROFESSIONAL EXPERIENCE**

**Project Management / Analysis**

*Skills:*

- Budget building and capital forecasting for DC power program
- Installation coordinator for various telecommunications projects involving data, transport, and switching networks
- Maintained financial responsibilities of all projects under my direct control
- Design and analysis of high-speed Internet solution manufactured by NEWTECH Instruments Inc.
- Performed circuit analysis and design modifications to Printed Circuit Boards
- Critical analysis of video transportation system for satellite and cable companies
- Outlined fiber optic transport system to increase inter-provincial data transmission capabilities
- Created and compiled proposals for an addition to St. Clare's ER department
- Work flow analysis to determine staffing requirements
- Collected data for successful bid to expand an existing graveyard

*Achievements:*

- Responsible for annual multi-million dollar capital program
- Exceeded company benchmark of 80% with respect to met project timelines
- Successfully controlled capital expenditures to within 15% of allocated budget targets
- Implementation of Voice / ADSL distribution unit currently deployed by Aliant Telecom
- Modernized Atlantic Lotto Corporation's provincial data transport system from 56kbps to 128kbps
- Upgraded reserve power system in Lamaline central office

**Technical Expertise***Skills:*

- Strong knowledge of DC power networks (rectifiers, batteries, inverters, distribution, etc.)
- Strong knowledge of telecommunications networks (data, voice, transport, etc.) and fundamentals
- Exposure to ADSL, ATM, DWDM, SONET, Fiber Optic technology fundamentals
- Proficient with Visual C++, Matlab, Java, and Microsoft Office software packages
- Proficient with Pspice, Electronics Workbench, Express PCB, CADkey, and Microsoft Visio development software packages
- Introduced to AutoCAD, Linux, Microsoft Project and Access
- Software development using Matlab environment
- Proficient with surface mount and through-hole soldering methods
- Experience in PCB layout and design
- Tested and verified PCBs to ensure product reliability
- Experience with Milling machine operation
- Familiar with surveying procedures and building codes
- Exposure to ADSL, ATM, DWDM, SONET, Fiber Optic technology and Telecommunication fundamentals

*Achievements:*

- Manager of DC power network for Bell Aliant.
- Member of team to establish Bell Canada AutoCAD standards and practices
- Bell Canada Subject Matter Expert (SME) on Core Infrastructure guidelines
- Developed Matlab software package used by Oceans Ltd. for creating 3D iceberg profiles
- Designed PCB currently used in sonar directional control system by Oceans Ltd.
- 100% of fabricated interfaces were shipped to consumers working properly
- 33% cost reduction and 25% reduction in component variation per interface

**Team Development / Leadership***Skills:*

- Executive Member of the Institute of Electrical and Electronic Engineering Inc. (IEEE)
- Member of Bell Aliant emergency evacuation team for Allandale Central Office
- Class Representative for Electrical Discipline of 2004
- Helped co-ordinate and direct the transfer of the Grace Emergency department
- Publisher / Editor of website that promotes international recording artists
- Patient care volunteer for the Health Care Corp. of St. John's
- Member of local musical ensemble



*Achievements:*

- Successful transfer of emergency services without any interruption of service
- Website has grow to include over fifty different artists
- Musical group was third at music competition for two consecutive years

**WORK HISTORY***Post graduation employment:*

- **Planner –DC Power Provisioning** , Bell Aliant, St. John's (2009-present)
- **Manager – Core Network and DC Power Provisioning** , Bell Canada, St. John's (2007-2009)
- **Project Engineer**, Rutter Technologies, St. John's (2004-2007)
- **Software Developer / Design Engineer**, Oceans Ltd, St. John's (2004)

*Work term employment:*

- **Software Developer / Design Engineer**, Oceans Ltd, St. John's (2003)
- **Software Developer**, Oceans Ltd, St. John's (2003)
- **Project Manager**, NewTech Instruments Ltd, St. John's (2002)
- **Electrical Engineering Technologist**, Consolidated Technologies Ltd, St. John's (2001)
- **Project Analyst**, Aliant Telecom, St. John's (2001)
- **Project Analyst**, Health Care Corporation of St. John's, St. John's (2000)

**Medical Service Aid**, Health Care Corporation of St. John's, St. John's (1999-2000)  
**Engineer's Assistant**, Newfoundland Engineering Consulting St. John's (1999)

**EDUCATION**

**Masters of Engineering Management**, MUN, Class of 2012

**Bachelor of Engineering Degree (Cooperative)**, Electrical Discipline, Memorial University of Newfoundland, Class of 2004

*Other relevant training:*

- Electrostatic devices training
- Alcatel provisioning / commissioning training for 7300 UD ASAM
- Completion of Electrical Engineering workshop
- Inventory control training
- Clinic support / Patient care training
- Graduated high school in the French Emersion Program

## SCOPE DESCRIPTION

<b>JOB TITLE</b>	Area Manager – HVdc Specialty Installations & Switchyards
<b>DEPARTMENT</b>	LCP Management Team
<b>LOCATION</b>	St. John’s NE-LCP Offices
<b>DIRECTION RECEIVED</b>	
Strategic only, reporting directly to the Project Manager: Generation / Island Link.	
<b>DIRECTION EXERCISED</b>	
Under the authority of the Project Manager: Generation / Island Link, the incumbent will have the authority to interface directly with, and assign deliverable requirements to, the senior members of Nalcor’s Generation / Island Link project team. The incumbent will have Nalcor’s authority for interfacing with and directing the EPCM Consultant to fulfill Nalcor’s overall Project Management role.	
The <i>Area Manager – HVdc Specialty Installations &amp; Switchyards</i> will not initially have direct reports.	
<b>SUMMARY OF JOB FUNCTION</b>	
With accountability residing with the Project Manager: Generation / Island Link, the incumbent is responsible for the overall delivery, including scope, cost and schedule management, of the HVdc Specialty Installations and Switchyards required for the Generation / Island Link project. Installations include:	
<ul style="list-style-type: none"> <li>• ac switchyard at Muskrat Falls;</li> <li>• Churchill Falls switchyard extension;</li> <li>• Muskrat Falls HVdc converter station;</li> <li>• Soldiers Pond HVdc converter station;</li> <li>• HVdc Transition Compounds;</li> <li>• Shoreline pond electrodes.</li> </ul>	
The responsibility extends throughout all Phases of the Project. With accountability residing with the Project Manager: Generation / Island Link , the incumbent will also be the budget holder for the HVdc Specialty Installations & Switchyards scope.	
The incumbent will provide Project execution leadership and direction throughout the development and execution phases (engineering, procurement and construction) of the Generation / Island Link project. The incumbent will be a key member of the Generation / Island Link project team and will interface extensively with the Project Manager: Generation / Island Link, as well as with the team’s senior personnel.	
The <i>Area Manager – HVdc Specialty Installations &amp; Switchyards</i> provides oversight and surveillance of the counterparty team employed by the EPCM Consultant, and will interface directly with the EPCM Consultant’s Project and Area Managers, in accordance with project procedures.	
<b>PRINCIPAL ACTIVITIES, DUTIES, AND RESPONSIBILITIES</b>	
The <i>Area Manager – HVdc Specialty Installations &amp; Switchyards</i> is responsible for the following:	
<ul style="list-style-type: none"> <li>• Management and control of HVdc Specialty Installations &amp; Switchyards associated scope, costs and schedules.</li> <li>• Identification of cost and schedule drivers, and implementation of associated optimization opportunities.</li> <li>• Identification of Changes and subsequent management of approved Changes, in accordance with Nalcor’s protocols.</li> <li>• Ensuring all relevant team members are engaged and executing their tasks as required.</li> <li>• Communication with and provision of relevant information to Nalcor team members.</li> <li>• Progress measurement and achievement of milestones.</li> <li>• Ensuring Company’s Management System requirements, methods / tools are being employed, are effective and opportunities for improvement are identified and implemented.</li> <li>• Ensuring deliverables from the EPCM Consultant meet all requirements, including all engineering, procurement, commercial and environmental deliverables required to be able to place purchase orders, award contracts and commence the construction works in accordance with the project schedule.</li> <li>• Ensuring all associated interfaces are identified and managed.</li> <li>• Facilitating problem resolution and has responsibility to ensure closure.</li> </ul>	

- Area Reporting – establishment of protocols and champion delivery.
- Ensures opportunities for improvement (safety, environment, cost, schedule, quality) are items of focus and vigorously championed.
- Ensuring related EPCM Consultant’s related Plan(s) meet Nalcor’s requirements.
- Ensuring compliance with commitments made in the Impact and Benefits Agreement during the planning/preparation phase and during construction.

**JOB SPECIFICATIONS**

**EDUCATION**

- Bachelor of Engineering or an equivalent combination of education, training and experience.

**EXPERIENCE**

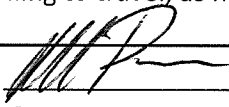
The successful *AreaManager – HVdc Specialty Installations & Switchyards* shall possess a project management background with 15 to 20 years of project management in a senior position on major projects.

The incumbent must also be willing to adhere to Nalcor Energy’s vision and values.

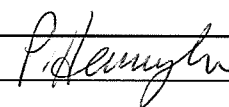
**SPECIAL SKILLS, JOB REQUIREMENTS, WORKING CONDITIONS, ETC.**

- Must be able to work effectively as a key member of the Owner’s team within a multi-functional team environment (matrix style organization structure).
- Excellent leadership and communication skills.
- Solution oriented.
- Must be able to work in a collaborative / supportive manner with stakeholders.
- Previous experience on a major project as an Owner’s representative using an EPCM contracting strategy preferred.
- Must be willing to travel, as necessary.

PREPARED BY



APPROVED BY



DATE

24-Jan.-2011

DATE

24 Jan 2011

**LIST OF AGENCIES FOR AREA MGR-OVERLAND TRANSMISSION (Jan 28/11)**

Air Energi, Ken Nickel-Lane [knickellane@airenergi.com](mailto:knickellane@airenergi.com), 403-225-4526  
Air Energi, Dawn Bateman [dbateman@airenergi.com](mailto:dbateman@airenergi.com), 709-738-0500  
Air Energi, Jennifer Folkes [jfolkes@airenergi.com](mailto:jfolkes@airenergi.com), 709-738-0505

Brunel, Darci Kruse [dkruse@brunelenergy.ca](mailto:dkruse@brunelenergy.ca), 403-539-5009  
Brunel, Mike McKinnon [mmckinnon@brunelenergy.ca](mailto:mmckinnon@brunelenergy.ca), 403-539-5009

Fabcon, Mike Critch [mike.critch@dovrefabcon.com](mailto:mike.critch@dovrefabcon.com), 709-754-2145  
Fabcon, Ron Edmonds [ron.edmunds@dovrefabcon.com](mailto:ron.edmunds@dovrefabcon.com), 709-754-2145

Fircroft, Julie Bowman [jbowman@fircroft.com](mailto:jbowman@fircroft.com), 403-705-2171  
Fircroft, Darrin Gallant [dgallant@fircroft.com](mailto:dgallant@fircroft.com), 403-705-2172

GSA (Div of Noramtec), Mike Payne, [mpayne@gsa-search.com](mailto:mpayne@gsa-search.com), 709-754-6410

Ian Martin Inc., Bruce Mullock [mullock@ianmartin.com](mailto:mullock@ianmartin.com), 416-439-6922  
Ian Martin Inc., Craig Pamenter [pamenter@ianmartin.com](mailto:pamenter@ianmartin.com) 416-439-6922

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Tier One Consultants Inc., [REDACTED] St. John's, NL [REDACTED]  
Principal Engineer, [REDACTED]