

ELECTRICAL ENGINEERING (THIRD YEAR)

JOEL MARCHAND

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EDUCATION

Bachelor of Electrical Engineering Jan 2010 – Present
 University of Victoria
 Victoria, BC

Electrical Engineering Technology Diploma Sep 2008 – Apr 2009
 Southern Alberta Institute of Technology
 Calgary, AB
 G.P.A. – 3.85/4.00

TECHNICAL SKILLS

Electronics & Electrical

- Analog/Digital circuit design, analysis & assembly
- Digital signal processing
- PID Controls
- Canadian Electrical Code
- Single phase & three phase Wye & Delta circuit analysis
- Power factor correction

Computer & Database

- Programming and design software AutoCad, ProCad (AutoElectric), Matlab, Eclipse, RSLogix5,
- RSLinx, ETAP, PSpice, MultiSim, Substation Explorer, ASE2000
- Word, Excel, Powerpoint
- JAVA coding

Lab Research

- Three phase induction & synchronous machines
- Motor control using VFD's
- Advanced PLC programming & process control
- Utility & industrial power system applications: transformer, relay & switchgear coordination
- DNP3 & ModBus communication protocols

TECHNICAL PROJECTS

Calculated a bill of materials for an uninterrupted Power Supply Design for Foothills Hospital
 Designed an upgraded HVAC power installation to support the hospital's recent expansion
 Detailed the required procedure in selecting effective heat trace design to protect pipelines

WORK EXPERIENCE

Engineering Summer Student May 2010 – Sep 2010
 MacSpark Electrical & Instrumentation
 Calgary, AB

Responsibilities:

- Assisted in design of well pads for Exxon's Oilfield development
- Completed material estimates and purchase orders
- Built technical engineering spreadsheets
- Categorized project documentation for client deliverables

Jones Fire Service

Calgary, AB

Responsibilities:

- Tested and serviced fire alarm systems
- Verified new alarm installations
- Programmed alarm panels
- Repaired fire alarm device deficiencies
- Completed preventative maintenance reports

Pipefitter's Assistant

May 2004 – Sep 2004

Konnox Pipelines

Calgary, AB

Responsibilities:

- Installed underground electrical wiring, communication cable and gas piping
- Followed wiring and piping design schematics
- Prepared residential transformer and communication service pedestals

AWARDS

Dean's Entrance Award <i>University of Victoria</i>	2010
Dean's Honor Roll <i>Camosun College</i>	2009
Graduation with Honors <i>Camosun College</i>	2009

ACTIVITIES & INTERESTS

I have been an athlete since childhood and have played competitive level baseball for most of my adult life. In my spare time I enjoy the outdoors and stay active with weight training, golfing, and snowboarding. I also like to keep myself current with advances in the electrical engineering field by reading trade publications and journals.

REFERENCES

1. Tom Jones
Owner - Jones Fire Service
Calgary, AB
403-555-5555
tjones@jonesfire.ca
2. Brad Sievwright
Foreman - Konnox Pipelines
Calgary, AB
403-555-5555
bsiev@konnox.ca
3. George Foreman
Coach – Calgary Braves Baseball
403-555-5555
gforman@braves.ca