



Ed Calixihan

**BSME, 5th Class Power Engineer
(Plant time required)**



Sherwood Park, AB



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HIGHLIGHTS

- Passed the ABSA 5th Class Power Engineering Certification Exam
- Experience in equipment design, operation and maintenance (corporate award received!)
- Advanced skills in AutoCAD and Pro/Engineer (3D CAD modeling)
- Experience in hand and power tools. A handyman.
- Experience in minor building repairs: carpentry, painting, plumbing, masonry, electrical wiring, gardening
- Trained on WHMIS, HAZCOM, Environmental Health and Safety, MSDS
- Experience in parts fabrication in machine shops
- Works smart and follows instructions well. A quick learner.



WORK EXPERIENCE - CANADA

Energy Modeler/Energy Auditor

August 2017 - Present

3D Energy Ltd. / Vital Group of Companies, Sherwood Park, AB - (<http://www.3denenergy.ca>)

- Conducts ASHRAE Level 2 Energy Audits to identify all energy streams in the facility, establish an energy consumption baseline, and recommended Energy Conservation Measures utilizing financial analysis
- Survey and analyze existing building and equipment operating conditions to determine operating deficiencies and identify retrofit measures
- Conducts NECB 2011 energy modeling for building permits

Energy Modeler (Internship and Full-Time Employee)

February - August 2017

Stantec, Calgary, AB - (<http://www.stantec.com>)

- Prepared NECB 2011 energy models and LEED IEQ c8.1 daylight analysis

Line Operator

April – August 2016

Perfect Fit Manufacturing Ltd., Calgary, AB (<http://www.perfectfit-ind.com/>)

- Operate extrusion equipment and report machine defects to the foreman
- Assist in machine troubleshooting
- Fabricate pallets and skids using hand and power tools
- Lift and load 25kg. raw materials. Clean the production floor



WORK EXPERIENCE - ABROAD

MVAC Design Engineer (Contract Work)

2015

DTSI Group Inc. - (www.dtsigroup.com)

- Designed MVAC systems for office and data center fit-outs – VAV, VRF, Split-Type and Packaged Systems.
- Executed CAD drawings and/or coordinated with the CAD operator for the preparation of design drawings
- Conducted site surveys and resolved site installation design conflicts

Design Team Leader

2013 - 2014

SunPower Corporation - (<http://us.sunpowercorp.com>)

- Supervised a team of design engineers and call center agents that prepared Solar PV installation shop drawings and calculations. Managed the deliverables of third-party designers and revised contract provisions to improve performance to metrics

Mechanical Engineer

2007 - 2012

ALT Cladding Inc. - (www.cladding.com)

- Conducted Energy Modeling, Natural Ventilation CFD Studies, Thermal Comfort Simulations, Daylight Performance and Rendering, Hygro-Thermal Diffusion Analysis, Solar PV Energy Output Analysis, NFRC & EN Façade Energy Performance Rating
- Applied ASHRAE90.1 and other international energy codes to thermal calculations
- Performed building envelope thermal analysis for Burj Khalifa and other iconic skyscrapers

Manufacturing Engineer

2006 - 2007

Littelfuse Phils. Inc. – (www.littelfuse.com)

- Installation and Testing of Machine Upgrades
- Fabricate parts in the Machine Shop using Lathe Machine, Milling Machine, Drilling Machine, Band Saw, Welding Machine, Hand Tools
- Environmental Health and Safety coordinator for the Production Engineering Department

Equipment Maintenance Engineer

1997 - 2005

Intel Technology Philippines, Inc. (www.intel.com)

- Direct equipment maintenance activities
- Composed and implemented equipment maintenance manual
- Installation of machine productivity and safety upgrades
- Keep track of spare parts inventory and order parts using SAP-based application
- Received corporate award for flawless execution of equipment operation and maintenance



EDUCATION AND CERTIFICATIONS

- B.Sc. in Mechanical Engineering
University of the Philippines
- Canadian Credential Equivalency
4 Years Bachelor's Degree
World Education Services
- Passed the ABSA 5th Class Power Engineering Certification Exam
- LEED Green Associate
- Corporate Readiness Training Program
Bow Valley College, Calgary