

MELVYN MUNGROO

B. TECH, M. ENG

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Highlights

- Over 7 years experiences in schematics reading, troubleshooting in electronics & electrical field.
- Excellent teamwork and communication skills gained through various extracurricular involvements.
- Certified member of Project Management Institute.
- Willing to travel when required. Due to my dual citizenship (Canadian passport and Mauritius passport), I am able to travel to most parts of the world without a visa.

Education and Training

Master of Engineering, Automation and Smart Systems

Dec 2022

McMaster University, Hamilton ON

Relevant Coursework includes:

Industrial Automation
Artificial Intelligence

Sensors & Actuators
Machine Learning

Advanced Robotics & Automation
Project Management

Bachelor of Technology, Power & Energy Engineering

April 2021

McMaster University, Hamilton ON

Relevant Coursework includes:

Power quality
Renewable Energy

Artificial Intelligence
Power Systems & electrical

Power Protection and control
Control Systems

Electronics Engineering Technology (Co-op)

Dec 2016

Niagara College, Welland ON

Relevant Coursework includes:

Programable Industrial Control (PLC)
Robotics Interfacing Control

Denso and Fanuc programming
Microcircuit Design & Fabrication

CAD and Manufacturing
Digital VHDL Systems

Skills

PROGRAMMING & SOFTWARE:

- MATLAB, C++, VHDL, Fanuc, RS Logix- ladder programming, Python, PLC.
- Microsoft Word, Excel, Access, PowerPoint, AutoCAD, Arduino, Altium Designer 16, PSSE.

SOFT SKILLS:

- Clear Communication in both English & French, Time Management, Willingness to learn, Team Player & Multi-tasking, Problem solving, and Creative Thinker.

Relevant Experience

Production Associate (Co-op)

May 2022 to August 2022

Honda of Canada Manufacturing, Alliston, ON

- Understanding data entry and data management in FANUC automation systems in accordance with the production plan.
- Examining incoming products and compared to documentation for accuracy and quality.
- Calibrating machines to maintain required productivity levels and adherence to quality standards.
- Supporting machine operators in setup and operation equipment resulting in efficient runs.

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- Inspecting final products to assess compliance with quality standards and established tolerances.
- Monitoring machinery in operation to identify concerns and make corrections or report complex problems.

Electrical & Electronics Technician

Jan 2016 to May 2022

Lapennaco, Niagara Falls, ON

- Assigned parts order for specific repairs based on the scope of work, technical needs, and cost.
- Collaborated alongside the team member to completing an average of 30 appliances per day.
- Schematics reading, appliances wiring, troubleshooting and repairs of home appliances.
- Warehouse Management

Electronics Technician (Co-op)

May 2015 to Dec 2015

Kera Technologies, Niagara Falls, ON

- Followed the procedures to complete hands-on assembly of optoelectronic and mechanical modules.
- Assembled and aligned small components following the procedure.
- Checked and modified the electrical circuit and Data Sheet according to the orders.
- Assembled and tested new products in the lab according to customer's specification.

Additional Experience

Student Assistant

Jan 2014 to Dec 2016

Niagara College, Welland, ON

- Worked alongside team members to organize events within the campus as well as outdoor activities.
- Communicated daily with the new international students to guide them around the region.
- Managed wide variety of student service and administrative tasks to resolve students issues efficiently.

Peer Tutor

Jan 2014 to Dec 2016

Niagara College, Welland, ON

- Completed sessions in labs or online to provide course specific support to students needing assistance.
- Went through homework with students and offered additional instruction.
- Coordinated after school tutoring hours with other teachers to help students in need of extra attention.

Technical Projects

Feeder Line Protection

2021

- Replicated the McMaster microgrid design using EMTP-RV software and simulating a fault.
- Used the IEEE - COMTRADE file generated by EMTP-RV software to the SEL 751 relay in the Advanced Power Lab at McMaster University for further relay testing.

Environmental Sensor

2016

- Designed and created a schematic diagram using Altium Designer 16.1
- Sensors and components placement, soldering and testing.
- Wrote a technical report and developed graphs to describe and illustrate the device operating characteristics.

Languages

Fluent in English and French, both written and verbal