Reginald **Marr**

Embedded Software Developer

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"Everything is mutable"

Summary

I am first and foremost most proud of my ability to collaborate with my peers across a variety of disciplines (and across a variety of physical locations) to produce something better than the sum of our individual contributions.

Additionally I pride myself on my ability to grind away at complex problems, break them down, and define their atomic components.

By doing this I am able to develop robust solutions which solve not just the specific task at hand but provide adaptability to solve the problem in a general sense.

I am forever keen to learn, adapt and grow.

Experience

L3Harris-Wescam *Hamilton, Ontario*

Embedded Software Designer - New Product Integration *Jan 2020 – Oct 2022*

- Designed a python/rust framework to support automated testing and analysis of MX systems.

- Developed capabilities to streamline conversion of text-based documentation into PDF, Powerpoint and static website formats.

- Led software development/project coordination for both NPI and sustaining.

- Collaborated with various engineering departments to develop software for and refine design specifics and requirements for various lens and laser sub-assemblies.

L3Harris-Wescam *Hamilton, Ontario*

Embedded Software Designer - Sustaining *May 2018 – Dec 2019*

- Provided support triaging bugs found during pre-shipment verification.

- Acted as inter-department liaison to solve logistical issues for customer deliveries.

- Developed automation tooling using python and web-based technologies to optimized various workflows.

- Generated documentation and improvement proposals for legacy software components.

- Completed TDD for Embedded C/C++ - WINGMAN SOFT, LLC, Issued Mar 2022

- NATO Secret Clerance.

McMaster University - The Learning Factory *Hamilton, Ontario*

Tech Assistant *May 2017 – Aug 2017*

- Responsible for process design, DCS system integration, hardware installation, and HMI development.

- Developed a product to track part/tool utilization using custom RFID hardware developing software using embedded C, C#, and MySQL.

Airtron Canada   *Missisauga, Ontario*
Project Coordinator   *Feb 2016 – Sep 2016*
- Designed and developed raspberry pi based relay to provide logging of environmental variables using python and custom REST API.

- Assisted in creating a proposal for a biogas cogen to convert food and animal waste into low grade electricity and high grade heat.

- Provided estimation support on energy services contracts involving the offset of GHG's via load balancing, HVAC system improvements, and more.

Education

McMaster University   *Hamilton, Ontario*
Bachelor of Technology - Automation Engineering Technology   *Sep 2013 – Dec 2017*
- 16 Months Co-Op

- Developing software to convert 3D CAD models into configuration files and GCode to be used for novel metal 3D printing process. (Capstone)

- Developed a neural network and network industrial system for modeling and controlling the distillation of ethanol. (Level 600 Project)

Mohawk College   *Hamilton, Ontario*
Advanced Diploma - Chemical Engineering Technology   *Sep 2013 – Dec 2017*
- CIM-accredited Business Management Certificate.

Skills

- Languages
  C/C++, Rust, Python, MySQL

- Developer Tools
  Git, Docker, Jenkins, Jira, Emacs

- Frameworks
  threadX, freeRTOS, x86 POSIX