Kevin Brennan

kevin@brennan.net │ 519-571-1307 │ github.com/kmgb │ kmgb.github.io

Summary

Third-year Computer Engineering student at University of Waterloo
Candidate for Honours Computer Engineering, Co-op (BASc)

Strong programming capabilities in:
C, C++ (8 years), Assembly – x86, RISC V (6 years), Rust (2 years),
C#, Java, Kotlin, Python, Bash, PowerShell, web development
Positive work attitude, dependable, hardworking, and quick learning

Experience

Programming

Experience with Git and SVN version control
JIRA and Confluence for documenting and investigating issues
Collaboration in Agile development environment
Analyzing and interpreting disassembly (IDA and Ghidra)
Execution speed optimization for time-critical code
Qt/QML framework experience
Windows and Linux development experience
Embedded software programming
IP networking (IPv4&6, UDP, TCP, Path MTU Discovery)

Hardware

Soldering, prototype boards
14x14" colour LED light display driven by an Arduino

Work Experience

Ford Co-op Winter 2021, Software Developer
Ford Co-op Summer 2020, Software Developer (CarPlay, Android Auto, QML, Documentation)

Dejero Co-op Fall 2019, Software Developer C++ (Networking, Debugging, Refactoring, Research, Implementation, Documentation)
Dejero Co-op Winter 2019, Software Developer C++ (Multi-threaded programming, Qt/UI, Debugging, Networking, Documentation)

Dejero Part-time Spring and Full-time Summer 2018, Production Assembly & Testing Specialist (Quality Assurance, Diagnostics)
Dejero Full-time Summer 2017, Production Assembly & Testing Specialist (Quality Assurance, Assembly, Training, Documentation)
Dejero Co-op Summer 2016, Production Assistant (Quality Assurance, Shipping, Assembly work, Supply Logistics, Training)

Volunteer and Extracurricular Activities

Sound technician at local church
Community band

Robotics club

University Systems Programming and Concurrency
Embedded Microprocessor Systems
Algorithms and Data Structures
Linear Algebra
Calculus 1, 2, advanced
Discrete Math and Logic 1, 2

Awards Merit Scholarship, University of Waterloo
High School Diploma (OSSD), Ontario Scholar, Honour Roll
Specialist High Skills Major: Technology & Communication
French immersion grades 1-8 inclusive + Grade 9 High School

Hobbies Audio mixing
Alto saxophone
Reverse engineering
Video editing