

# Kevin Kredit

<http://github.com/kkredit>

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## OBJECTIVE

Embedded software engineer seeking to move into higher level software and advance the state of safety and security.

## EDUCATION

- **Grand Valley State University** ..... Grand Rapids, MI  
*Master of Science in Computing and Information Systems; GPA: 4.00* ..... *Anticipated Dec. 2020*
  - **Concentrations:** Cybersecurity, Web & Mobile Computing
  - **Selected Coursework:**

Data Security and Privacy	Web Architectures
Information Security	Distributed Systems
Principles	Mobile Development
Secure Software Engineering	SQL Database Design
- **Calvin University (formerly Calvin College)** ..... Grand Rapids, MI  
*Bachelor of Science in Engineering with Honors; GPA: 4.00* ..... *May 2016*
  - **Concentration:** Electrical & Computer
  - **Minors:** Computer Science, Mathematics, and Business

## EXPERIENCE

- **DornerWorks Ltd.** ..... Grand Rapids, MI  
*Embedded Software Engineer* ..... *June 2016 - Present*
  - **Multiprocess C Systems Programming:** Implemented a multithreaded runtime library that communicated with a multi-partition health monitoring application
  - **Continuous Integration:** Stood up a Jenkinsfile pipeline-driven CI platform to remotely cycle power and provide serial access to target boards
  - **Isolation Technologies:** Extended and used separation technologies Xen hypervisor and the seL4 microkernel
  - **Simulation Software:** Optimized automotive radar simulation C++ software for speed and fidelity with threading and vector instructions (OpenMP and Intel SSE)
  - **Touch Driver:** Developed Windows EC 7 touch screen drivers in C using SPI and I2C
- **Boeing** ..... Everett, WA  
*Avionics Systems Engineer, Intern* ..... *June - August 2015*
  - **Systems Engineering:** Performed systems integration, requirements development, and lab testing

## PROJECTS

- **z\_check:** C error handling and logging library to enable robust programming practices
- **MQTT Security App:** MQTT client for Android that analyzes server configurations for security properties
- **IoT Irrigation:** Irrigation control system using mesh networking and a 3G gateway connecting to a web UI

## PROGRAMMING SKILLS

- |                        |       |          |                                 |          |            |
|------------------------|-------|----------|---------------------------------|----------|------------|
| • <b>Languages:</b>    | C     | Bash     | Python                          |          | JavaScript |
|                        | C++   | Java     | SQL                             | HTML/CSS |            |
| • <b>Technologies:</b> | Linux | valgrind | Jenkins                         | seL4     | Rails      |
|                        | gdb   | Docker   | L <sup>A</sup> T <sub>E</sub> X | Xen      | React      |