

EXPERIENCE

DornerWorks Ltd 2019 - present

- Designed and implemented a cyber resiliency component on seL4 to monitor network traffic and isolate high-criticality components when threatened.
- Built embedded Android and configured the WiFi device and networking for Cog Systems' security stack.
- Developed a health monitor and fault handler component on seL4.
- Created multiple Linux VM configuration on seL4 on Ultra96v2.

Grand Valley / Active Inspection 2016 - 2017

- Helped develop an application to build, train, and evaluate deep neural networks for use in Active Inspections' inspection systems.

DornerWorks Ltd 2015 - 2016

- Worked on a bug fixing team and updated requirements for GE's Aircraft Health Management System.
- Gained experience interacting directly with customers to solve problems with their systems.
- Tested and verified firmware commands for X-Rite Intellitrax.
- Designed functions and created a test device for Dexter Laundry's Drying Machine. Wrote Python code to interpret C structures for the data acquisition unit.
- Maintained continuous integration testing for Xen hypervisor on the Zynq platform.

Thunder Mountain Holdings 2011 - 2014

- Managed and worked with a team on busy days; handled the site individually at other times.
- Gained extensive experience dealing with customers and meeting their expectations.

EDUCATION

Grand Valley State University Fall 2018

Bachelor of Science in Engineering; Computer Engineering GPA: 3.96

Coursework - System Programming; Data Structures and Algorithms; Operating Systems Concepts; Embedded System Design; Design of Microcontroller Applications

Skills - C/C++; CAMkES; Python; Java; Git/SVN; Linux/Unix; seL4

References available upon request.