

EXPERIENCE

C-Speed LLC – *Computer Science Co-op*

AUG 2021 - DEC 2021

- Performed testing and verification working through Microsoft Azure TFS
- Maintained and added features to a Bing Maps GIS app and employed resource efficient algorithms to manage large amounts of data

PAR Government Systems – *Technician Co-op*

MAY 2021 - AUG 2021

- Developed embedded applications in MikroC for an ARM STM32 processor with a focus on LTE communications
- Gained experience debugging ARM processors, identifying bugs in provided libraries

uBreakiFix – *Technical Electronics Specialist*

AUGUST 2017 - MARCH 2021

- Troubleshooting and repairing electronics such as iPhones, Android phones, computers, and gaming consoles.
- Also involved with front-of-house duties such as checking customers in and answering phones.
- Gained lots of experience with a changing work environment because we had to adjust to different corporate policies and partnerships.

EDUCATION

Rochester Institute of Technology – *Bachelors – CS Major, CE Minor – 3.1 GPA*

AUGUST 2019 - EXPECTED GRAD MAY 2024

PROJECTS

Fridgr: A Python-Based Fridge Inventory Manager – *Python, PIL, Kivy, Raspberry Pi, Linux*

wmcda.de/fridgr

- Built an inventory management system in Python to manage a communal refrigerator.
- Generated barcodes to uniquely identify items, integrated a barcode scanner to lookup items based on barcode
- Built touchscreen interface using Kivy screenmanagers

RTL-SDR Antennas – *Python, SDR, Antennae, Raspberry Pi, Linux*

wmcda.de/rtlsdr

- Built multiple antennas and used them to download pictures from weather satellites and receive pings from aircraft transponders.
- Learned how to deploy two 24/7 systems (Flightradar24, Goestools), and how to track and ensure uptime.
- Gained experience troubleshooting issues in the field.

SKILLS

Kivy	Java	C#	ESP-IDF	PlatformIO	Python
Linux		C (Programming Language)		ESP32	Soldering
Raspberry Pi		C++	Software Defined Radio		Antenna Design