

EXPERIENCE

- SupraCoders: Software Development Immersive** | USAF Oct 2020 – Present
- 3-month full stack development bootcamp with Defensive Cyber Operations - Satellite follow-on assignment
 - Configured Hack-A-Sat network with Puppet
 - Developed COSMOS TT&C protocol decoder
- Mission Director, GPS III, USAF/USSF** | SMC, LA AFB Apr 2020 – Present
- Commanded 12-member team for readiness events and launch & early orbit operations (L&EO)
 - Conducted L&EO for SV04
- Project Officer, Operational Resiliency 2/2B, USAF/USSF** | SMC, LA AFB Nov 2019 – Present
- Led current-phase production and next-phase technical evaluation
 - Spearheaded two add-on efforts to accelerate next-phase schedule
 - Directed ground software verification testing
- RT Leaders** | Munich, Bavaria, Germany Jun 2017 – Dec 2017
- Programmed FANUC and Kuka models in both factory and laboratory locations
 - Implemented email-based support and ticketing system using MantisBT and integrated CppCheck into Jenkins
- RIT Computer Engineering Department** | Rochester, NY Dec 2016 – May 2017
- Researched and implemented networking protocols within a virtual domain for realization of real-world radio use cases, using a synthesis of C++ and Python
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SKILLS

- Languages:** CSS, Java, Javascript, \LaTeX , Python, VHDL
- Software:** Docker, GNU/Linux, PostgreSQL/MariaDB, React, Qt
- Foreign Languages:** German – Intermediate
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EDUCATION

- Rochester Institute of Technology** | Rochester, NY
- Bachelor of Science in Computer Engineering, May 2019
 - Minor in Military Studies and Leadership, May 2019
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PROJECTS

- AT-AT - Aggregate Tasker Administration Tool**
- Proof-of-Concept to replace Department of Defense's Tasker Management Tool
 - Designed and implemented tasker inbox view/response features and accompanying database and API
 - Built with Javascript, Express, PostgreSQL, React, and AstroUXDS CSS
- Low Cost Fundus Camera** | Senior Design
- Designed low-cost functional modern fundus camera capable of capturing screening quality retinal images
 - Interfaced Raspberry Pi with linear actuators, motor HAT, and controllable LEDs
 - Programmed user interface in PyQt
- Semi-autonomous Cell Battery Constructor**
- Planned and implemented operations for FANUC R-30iB to construct experimental cell batteries
 - Designed semi-autonomous function for space-constrained, pumped argon environment
- Genesee River Raft** | Personal Project
- Constructed raft by hand from fallen timber and rope
 - Successfully floated it from RIT to the University of Rochester boathouse