

ANDREW REDMAN

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EDUCATION

Houghton College

Bachelor of Science in Applied Physics, Minor in Computer Science

Houghton, NY

Aug. 2013 – May 2017

University at Buffalo

Master of Science in Electrical Engineering

Buffalo, NY

Spring 2026 – Present

EXPERIENCE

D3 Embedded

Electrical Engineer

Henrietta, NY

Aug. 2017 – Present

Sr. Systems Engineer

Feb 2022 – Present

- Subject-matter expert in millimeter-wave radar (60-64GHz, 76-81GHz)
- Lead team through algorithm design tasks for radar application development
- Manage technical requirements and delivery across software, hardware, and regulatory disciplines
- Responsible for architecture decisions and technical project planning

Team Lead

Feb 2023 – Present

- Responsible for mentoring and managing software development team
- Lead process improvement efforts to improve efficiency and performance

Software Engineer

Sept 2018 – Feb 2022

- Data analysis and algorithm design for industrial, automotive, and medical applications
- Assist with on site and lab testing to evaluate mmWave radar performance
- Development of radar firmware on TI mmWave embedded platform (C7x DSP, R4F ARM)

Engineering Technician

Aug 2017 – Sept 2018

- Gained experience with millimeter wave radar sensors
- Gained experience with schematic design and layout, electrical testing, and software development
- Contributed to data analysis and creating test reports

Houghton College

Houghton, NY

Undergraduate Research Assistant

January 2016 – May 2017

- Maintained a low-pressure deposition chamber for depositing Ag thin films
- Power supply design and construction to use in sputtering for Ag thin film deposition
- Summarized work in thesis paper

NASA CSPAR

Huntsville, AL

Undergraduate Research Assistant

Summer 2016

- Used data science tools in Python to analyze and share data from Voyager 1
- Gained experience with regular expressions, Python, and other data science tools
- Learned about the science of heliophysics and magnetohydrodynamics

TECHNICAL SKILLS

Languages: Python, MATLAB, C/C++, Bash

Developer Tools: Git, Docker, VS Code, Orcad

Lab Equipment: Oscilloscope, Function Generator, 3D Printing, Arduino

Soft Skills: Leadership, Communication, Problem Solving, Public Speaking

PERSONAL PROJECTS

Amateur Radio Operator | *RF Spectrum, SW Design*

March 2025 – Present

- Licensed amateur radio operator
- Working on repurposing 80GHz automotive radar equipment as amateur communication radio
- Antenna design for HF/VHF radios
- Construction of fox hunt radio transmitter

Home Server | *Docker, Git, Arduino, Networking*

May 2021 – Present

- Manage a personal server for backups and home projects
- Using Docker containers to run SAMBA file share, reverse proxy, MQTT, VPN, network monitoring