CAMERON GORDON

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PROFESSIONAL EXPERIENCE

RAYTHEON
Woburn, MA

Electrical Engineer P2, Receiver Exciter & Back End Processing — Jan 2025 – Present

- Led integration of hardware and software for Digital Receiver/Exciter (DREX) subsystem in Sea-Based X-Band Radar (SBX); ensured on-schedule delivery for $2.2 billion missile defense program
- Diagnosed and resolved timing discrepancies between legacy and upgraded systems via signal path analysis and firmware/software updates, boosting synchronization accuracy by 30%
- Identified root causes of diagnostic failures and deployed software/firmware fixes, enhancing reliability and raising hardware test pass rates by 200%
- Prevented flawed control subsystem release by proposing and validating two hardware solutions, with one adopted and presented at design review
- Automated EEPROM and firmware programming with custom scripts, reducing manual configuration time by 60% and minimizing production errors

REDWIRE SPACE
Marlborough, MA

Hardware and Embedded Software Engineering Intern — May 2024 – Aug 2024

- Designed hardware and software for new sun sensor, achieving 70% cost reduction while matching angular resolution and power performance
- Developed optimization algorithms for auto-calibration, improving sensor accuracy by 250% and cutting technician time by 20% by eliminating two manufacturing steps
- Authored detailed engineering analyses and reports; delivered prototype under timeline and budget, projecting 450% first-year ROI

LIBERTY DEFENSE
Wilmington, MA

Altium Design Engineering Consultant — May 2023 – June 2023

- Built unified Altium component library, replacing manual system and saving over 350 annual hours
- Designed 25 impedance-controlled RF IC components for next-gen threat detector PCBAs

TESLA
Palo Alto, CA

Display Electrical Engineering Co-op — Jan 2022 – Aug 2022

- Redesigned display interface PCBAs for mass-production vehicles, cutting manufacturing costs by over $1M

FRESENIUS MEDICAL CARE
Lawrence, MA

R&D Electrical Engineering Co-op — Jan 2021 – Aug 2021

- Automated the hardware validation procedure for next-generation dialysis machine infotainment PCBAs by developing a custom embedded device, enhancing testing efficiency and reliability in volume production
- Diagnosed 2 sources of electrical noise on existing designs using simulation CAD tools, implementing solutions that reduced noise amplitude on high-speed buses by 75%

PROJECTS & EXTRACURRICULAR ACTIVITIES

SUMMIT SIGNAL - IOT SATELLITE-BASED SOS DEVICE

Embedded Device Personal Project — July 2023 – Jan 2024

- Designed hardware and embedded software for handheld SOS device with AWS connectivity via satellite, integrating GNSS/Iridium antennas, IMU, MCU, gate driver, Li-Ion charger, and power MUX

PROJECT LEAD - NORTHEASTERN ELECTRIC RACING

EECE Project Leadership Position — Aug 2020 – Aug 2023

- Directed 8-member undergraduate team through 3 hardware/software projects for Formula SAE electric vehicle, meeting budget/timeline constraints
- Secured 1st Place Electric Vehicle award at IEEE Formula Hybrid+Electric 2021 Competition

EDUCATION

NORTHEASTERN UNIVERSITY Boston, MA

Master of Science in Electrical & Computer Engineering **(4.0/4.0 GPA)** Dec 2023 – Dec 2024

- Concentration in Computer Systems and Software

Bachelor of Science in Electrical Engineering **(Summa Cum Laude)** Sep 2019 – Dec 2023

SKILLS & INTERESTS

Hardware: Altium Schematic/PCB Design, Embedded Development, Design for Manufacturing
Software: C, C++, Python, Git, MATLAB, Simulation Software (PSpice), Jira, Confluence, MS Office
Interests: Skiing, Biking, Working Out