CAMERON GORDON

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PROFESSIONAL EXPERIENCE

RAYTHEON
Woburn, MA

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

- Led hardware and software integration for X-band Digital Receiver/Exciter (DREX) in Sea-Based X-Band Radar (SBX); ensured on-schedule delivery for $2.2 billion missile defense program
- Diagnosed system timing issues through signal path analysis; resolved discrepancies with firmware/software updates, increasing synchronization accuracy by 30%
- Identified diagnostic failure root causes and implemented fixes; enhanced system reliability, boosting pass rates by 200%

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 algorithm for auto-calibration, improving accuracy by 250% and cutting technician time by 20%

LIBERTY DEFENSE
Wilmington, MA

Altium Design Engineering Consultant — May 2023 – June 2023

- Built unified Altium component library, replacing manual system and saving over 350 engineering hours annually
- Designed 25 impedance-controlled RF IC symbols and footprints featured on next-gen threat detector PCBAs

TESLA
Palo Alto, CA

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

- Redesigned display interface PCBAs currently featured in mass-production vehicles (Model 3, Y, S, X); reduced manufacturing costs by over $1M at scale while enhancing thermal management and signal integrity
- Identified and resolved 3 critical hardware flaws in display assemblies; implemented fixes on-schedule and on-budget
- Streamlined PCBA validation through procedural optimizations; cut validation time by 15% and boosted throughput

FRESENIUS MEDICAL CARE
Lawrence, MA

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

- Automated hardware validation for next-gen dialysis infotainment PCBAs by developing a custom embedded device, enhancing testing efficiency and reliability in volume production reducing noise amplitude on high-speed buses by 75%

EDUCATION

NORTHEASTERN UNIVERSITY
Boston, MA

*Master of Science **(M.S.)** in Electrical & Computer Engineering - **(4.0/4.0 GPA)*** — 2024

*Bachelor of Science **(B.S.)** in Electrical Engineering - **(Summa Cum Laude)*** — 2023

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
- Secured 1st Place Electric Vehicle award at IEEE Formula Hybrid+Electric 2021 Competition

TECHNICAL SKILLS

Hardware: Altium, Embedded Systems, RF Design, Communication Protocols (I2C, SPI, UART, CAN), EE Test Equipment
Software: C/C++, Python, Git, MATLAB, PSpice Circuit/IC Simulation, Jira, Confluence, MS Office