Maxwell Kenny

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EDUCATION

University of Michigan Ann Arbor, MI
Bachelor of Science in Engineering (BSE), Computer Science *08/2025 – 05/2027*
Bachelor of Science in Engineering (BSE), Aerospace Engineering *08/2025 – 05/2027*
GPA: 3.38/4.00
Coursework: Advanced Embedded Systems, CubeSat Flight Laboratory, Intro to Computer Organization

WORK EXPERIENCE

Navitas Systems Ann Arbor, MI
Battery Management System Engineering Intern *May 2025 – August 2025*
- Led design verification for Battery Management System PCBs by writing and executing test procedures using DMMs, Power Supplies, and Electronic Loads
- Developed software to manage MCU handling of Unified Diagnostic Service commands received from testing and charging hardware.
- Coordinated with test team to develop a comprehensive quality check procedure to verify internal cable resistance.

Current Product Engineering Intern *May 2024 – August 2024*
- Developed an approach using HiPot testing to identify defects early in production, reducing rework time by 20%.
- Coordinated with production team to track all design changes in Product Data Management software.

PROJECT EXPERIENCE

AstroCam, Bioastronautics and Life Support Systems Ann Arbor, MI
Software and Hardware Advisor *January 2025 – Present*
- Directed design and development of a dual-PCB hand held camera for use in micro-gravity using MBSE principles.
- Calculated worst-case power draw for PCB system to optimize the design while maintaning required mission lifetime.
- Developing embedded firmware in C for an STM32 microcontroller to manage and optimize data pipelines.

Michigan Aeronautical Science Association Ann Arbor, MI
Avionics Bay Boards Member *September 2024 – Present*
- Contributed to the design of a network of three mission-critical PCBs for distributed control of tank valves and DAQ across the rocket's body.
- Developed a H-bridge circuit that allowed seamless control of LOx tank's electric control valve.

Ping Pong Robot Ann Arbor, MI
Chief Engineer *January 2025 – August 2025*
- Directed design, development, and testing of autonomous ping pong robot that could maintain a rally with a player for 30 seconds with a budget of $400.
- Designed stepper motor drivers with acceleration/deceleration ramping to reduce vibrational stress on gantry.
- Fabricated precision 3D-printed mounts for aluminum extrusion, enabling precise 2-axis belt-driven control.

SKILLS

Coding: C, C++, C#, MATLAB, Python, Bash, ARMv7, Linux, HTML, CSS, Verilog, JavaScript
CAD: SiemensNX, SolidWorks, Autodesk Inventor, Altium Designer, KiCAD, Star-CCM+, Ansys Discovery
Other: Experienced with CPLM and collaboration tools including Teamcenter, Arena, Jira, and Confluence.