

AIDAN SHARPE

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OVERVIEW

Growth-driven engineer with years of diverse programming & electronics experience. Led my robotics team to implement an award-winning competitive robotic system. As the Workshop chair for the Rowan University IEEE Student Branch, developed and presented lessons to successfully teach critical engineering skills to underclassmen.

EDUCATION - ROWAN UNIVERSITY

B.S. in Electrical and Computer Engineering Expected May 2025

Certificate in Cybersecurity Engineering

Certificate in Cybersecurity

GPA: 3.76

Martinson Honors College

Fall 2021 – Present

Dean's List

Fall 2021 – Present

Relevant Coursework: Circuit Design & Analysis, Computer Architecture, Embedded Systems, FPGA Programming

Long-Term Engineering Project: Spaceport America Cup (formerly IREC) focusing on Avionics & Power Management

WORK EXPERIENCE

Technology Development Engineering Intern May 2023 – August 2023

Inductotherm Corp.

Rancocas, NJ

- Extended the functionality of an industrial test fixture by designing and testing a controllable frequency square wave oscillator circuit and implementing it in a PCB assembly
- Improved reliability of customer systems by designing and automating remote configuration & diagnostic tools
- Enabled efficient deployments of remote systems by converting data publishing computers to a custom OS

Laser Fleet Sailing Coach

Jun 2020 – August 2022

Toms River Yacht Club

Toms River, NJ

- Greatly advanced the abilities and confidence of beginner Laser sailors
- Orchestrated and presented lessons to boost the skills of students

SKILLS

Programming

C, Python, C++, Verilog HDL, C#, Java, Bash, MatLab

Electronics

Circuit & PCB Design, Through-hole & Surface Mount Soldering

Server & IoT

Microsoft Azure IoTHub, Docker, Podman, Secure shell remote server management

Embedded Systems

Experience programming MSP430 and Arduino devices

Hardware Testing

Examines circuits with Waveform Generators, Multimeters, & Oscilloscopes

Robotics

Autonomous and Manual Control Programming, Data & Power Cabling

General Software

Desktop & Server-based Linux, Windows, LaTeX, Microsoft & Google Office

Special Software

Wireshark, SPICE, Git source control, Vim, VirtualBox, NixOS

CAD Packages

Altium Designer, OnShape, KiCAD, FreeCAD

Soft Skills

Professional Written & Verbal Communication, Leadership, Initiative

AWARDS & DISTINCTIONS

- Eagle Scout with Bronze & Gold Palms 2020
- Smart City Innovation Track Winner at 24-hour rapid engineering competition 2022
- Professional Engineering Society of Mercer County — Engineering Student Scholarship 2021
- FIRST Robotics Competition Team Mercury: 1089 Gracious Professionalism Scholarship 2021

EXTRA-CURRICULAR ACTIVITIES

- Rowan IEEE Student Branch Engineering Workshop Leader 2021 – Present
- Rowan Habitat for Humanity 2023 – Present
- Rowan University Intramural Flag Football 2022 – 2023