

To whom it may concern,

My name is Aidan Sharpe and I am interested in your Electrical Engineering Intern position.

Through my pursuit of an Electrical and Computer Engineering degree at Rowan University, I have enhanced my electrical and computer engineering, software development and documentation, and technical writing skills.

I have over six years of programming experience both in an academic and hobbyist setting. I am proficient in C, C++, Java, and Python 3. My full portfolio can be found on my GitHub page at <https://github.com/Adog64>.

Additionally, I have over four years of robotics development experience including custom sensor and motor controller wiring, power cabling, and programming autonomous functionality. I have designed and soldered custom printed circuit boards based on schematics. I am also proficient in programming FPGAs in Verilog HDL.

Overall, I believe that my broad hardware and software skill sets in addition to my initiative-driven attitude have uniquely cut me out for this position. Please contact me if you have any questions or would like to schedule an interview.

Thank you so much for your consideration,

Aidan Sharpe

A handwritten signature in black ink that reads "Aidan Sharpe". The signature is written in a cursive, flowing style.



AIDAN SHARPE

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GitHub: <https://github.com/Adog64/>



As an experienced leader in programming and electronics, I have developed practical skills in guiding a team to accomplish goals. I was first introduced to coding in the fifth grade, and I have enthusiastically expanded my knowledge to fluency in several of the most widely used programming languages. I have a creative and ambitious mindset, and I am always looking to learn something new.

ROWAN UNIVERSITY CLASS OF 2025

- Major: Electrical and Computer Engineering
- John H. Martinson Honors College (Fall 2021 – Present)
- GPA: 3.71
- Dean's List: Fall 2021, Spring 2022

COMPUTER & PROGRAMMING SKILLS

- Debian-based and Fedora-based Linux (9/10)
- Windows 7, 10, & 11 (8/10)
- Microsoft Office 2007 & 2021 (9/10)
- Python, C, C++, & C# (8/10)
- Verilog HDL (8/10)
- Java (6/10)
- SDL2 and STB-Image Libraries for C (7/10)
- Built mobile apps using Xamarin framework
- Maintains active and organized GitHub page
- Programmed FIRST Robotics Competition robot in Java
- PyGame & NumPy Python libraries (8/10)
- DE10 Lite FPGA programming (7/10)

ELECTRONICS SKILLS

- Power and CAN data bus wiring for FIRST Robotics Competition robot
- Designed schematics and printed circuit boards (PCBs)
- Independently designed Arithmetic and Logic Units in Logisim and Minecraft

AWARDS & DISTINCTIONS

- Eagle Scout with Bronze and Gold Palms (March 2020)
- Rowan IEEE Student Branch Electronics competition: Smart cities track winner (2022)
- Professional Engineer's Society of Mercer County Michael A. Valenti Memorial Scholarship (2021)
- Mercury 1089 Robotics Team Gracious Professionalism Memorial Scholarship (2021)
- National Honor Society & German National Honor Society (Inducted 2021)
- Rowan University Military Appreciation Scholarship (2021 – Present)
- Rowan University Merit Scholarship (2021 - Present)

EXTRACURRICULAR ACTIVITIES

- FIRST Robotics Competition: Programming and Electronics Committee Leader (2017 – 2021)
- Active member of Rowan IEEE Student Branch (Fall 2021 – Present)
- Rowan Intramural Flag Football (Fall 2022 – Present)