



Intern Position: Embedded Systems Intern

Job Description:

We are seeking a highly motivated and technically skilled intern to join our team as an Embedded Systems Intern. In this role, you will have the opportunity to work on cutting-edge projects that involve Python programming, Arduino programming, C/C++, and (optionally) CAD tools for 3D design and printing. The ideal candidate is passionate about technology, has a strong foundation in programming, and is eager to learn and contribute to our innovative projects.

Key Responsibilities:

1. Python Programming:

- Develop and maintain Python scripts for various applications, including data analysis, automation, and system integration.
- Collaborate with the development team to implement and optimize software solutions.

2. Arduino Programming:

- Design, code, and debug firmware for Arduino-based systems.
- Work on the integration of sensors, actuators, and communication modules using Arduino platforms.

3. C/C++ Programming:

- Contribute to the development of embedded systems using C/C++.
- Debug and optimize existing code for performance improvements.

4. CAD Tools for 3D Design and Printing (optional):

- Utilize CAD tools to create 3D models for various projects.
- Collaborate with the design team to ensure that 3D models meet project specifications.
- Prepare and optimize models for 3D printing.

5. Collaboration and Communication:

- Work closely with cross-functional teams to understand project requirements.
- Communicate effectively with team members to provide updates on progress and challenges.

Qualifications:

- Currently pursuing a degree in Computer Science, Electrical Engineering, or a related field.
- Strong programming skills in Python, Arduino, and C/C++.
- Basic understanding of embedded systems and microcontroller programming.
- Excellent problem-solving and critical-thinking skills.
- Strong communication and teamwork abilities.
- Familiarity with CAD tools such as OpenSCAD, SolidWorks, AutoCAD, or similar is a plus.
- Knowledge of 3D printing processes and best practices is a plus.

Additional Information:

- This is a paid internship position.
- Location: Lowell, MA (Hybrid)
- Opportunities for professional development and mentorship.

If you are enthusiastic about working on cutting-edge technology projects and gaining hands-on experience in embedded systems and 3D design, we encourage you to apply for this internship. Please email marcie@advancedsilicongroup for more information.