



Job Description: Embedded Systems Engineer Intern Position

January 22, 2020

At Marmon MiM Group, it isn't enough to be able to produce great product, we want you to be able to produce great ideas and shape the future of our product. We are looking for an embedded systems engineer to help us research and build awesome products. This position will be responsible for the development, building and testing of products for a specific area, leveraging his/her expertise and knowledge of multiple systems. This position will work closely with our team in a highly collaborative environment.

We're looking for a bright, self-starter to intern with our development team, working on internal and client facing projects. You'll be working with some of the most current technologies, tools and processes. We leverage Arduino, Raspberry PI, M5Stacks, Espressif, stepper motors, and a variety of sensors and more when building our systems and solutions.

More importantly, you'll be working with a passionate bunch of geeks who work at mHub one of the nation's largest and fastest growing innovations centers for product development. We encourage full use of what the facility has to offer to further the candidates engineering talent and love of learning.

As an intern, you will be a junior member of the innovation team. You will be responsible designing, implementing and recommending new feature and fixes. You will participate in daily standups and sprint planning sessions. Additionally, you will be assigned a staff member as a mentor to guide you throughout your internship.

Essential Functions:

- Contribute to the architecture of our new product by defining requirements and generating concept selection matrices.
- Write basic code to exercise hardware
- Generate proper production documentation
- Work closely with the team members to develop code and deliver technical solutions adhering to business requirements.
- Monitor the product for operating efficiency and performance stability in order to provide (or arrange) proactive maintenance.
- Flexibility to work across all functions/levels as part of a dynamic team.
- Stay current and help select and implement modern technologies.
- Share knowledge and champion best practices.
- Regular, dependable attendance and punctuality.



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Qualifications:

Education/Experience:

- At Least a Junior year student with a focus in Computer Engineering, Computer Science, Electrical Engineering, Information Systems, Mathematics
- 1 year experience in applicable programming languages such as the following: C or Python
- In addition to the above qualifications,
 - Must be able to solve basic data structures and algorithms.
 - Must have strong electronics background
 - Schematic capture and layout skills - (Autodesk Eagle a plus).
 - Basic working knowledge of IDE's like Arduino or Visual Studio Code
 - Basic soldering skills
 - Basic wiring skills
 - Knowledge of basic electrical safety precautions

Communication Skills:

- Excellent written, verbal communication and presentation skills.
- Ability to effectively communicate technical issues and solutions to all levels of Product Engineering and Product Management.
- Demonstrated ability to effectively share technical information
- Strong analytical and problem-solving skills.

Physical Demands:

- This position involves regular walking, standing, sitting for extended periods of time, hearing, and talking.
- May occasionally involve stooping, kneeling, or crouching.
- May involve close vision, color vision, depth perception, focus adjustment, and viewing computer monitor for extended periods of time.
- Involves manual dexterity for using keyboard, mouse, and other office equipment.
- May involve moving or lifting items under 50 pounds.

Work Hours:

- Ability to work a flexible schedule based on department and company needs.

Company Profile:

Marmon Holdings, Inc., a Berkshire Hathaway company, is a global industrial organization comprising 11 diverse business sectors and more than 125 autonomous manufacturing and service businesses. Revenues exceeded \$8.1 billion in 2018.