

02/29/2024

**AndyMark, Inc.**

**Position:** Embedded Software Electronics Developer

**Reports to:** Director of Engineering

**Supervisory Responsibility:** This position has no supervisory responsibilities

**Job Summary and Key Objectives:** The Engineer will develop software for AndyMark products. This will mostly be embedded software, controlling how AndyMark electronic products operate and communicate. They will also test, select, and design electrical components in addition to assisting with product assembly, testing, and documentation. This position will work with other AndyMark engineers and administration, and will often require working independently on projects assigned to them.

**Key Responsibilities and Tasks:** *Reasonable accommodations may be made to enable individuals with disabilities to perform the responsibilities and tasks.*

- Lead the embedded software development effort for AndyMark products
- Create and support functional software for AndyMark electronic products
- Assist and/or lead designing and building prototype products
- Assist and/or lead product testing, debugging, and evaluation, as well as creating the necessary documentation
- Interact with other departments - purchasing and operations staff during the normal course of product creation

**Other Responsibilities:**

- Assist with part inventory and help maintain an appropriate level of stocked parts
- Provide technical customer support via phone and email
- Assist AndyMark staff at *FIRST* and other off-season events
- Assist with order fulfillment duties, as needed
- Manage and communicate project information through software tools (Trello, Slack, etc.)
- Keep shop, lab and build area clean and organized
- All other duties as assigned

**Required Skills and Abilities:**

- Able to follow directions, work independently and with minimal supervision
- Work with a flexible schedule and demonstrate effective time management
- Competent at soldering (including surface mount soldering)

02/29/2024

**Education and Experience:**

- Must have a bachelor's degree in Electrical Engineering, Engineering Technology, Computer Science, or similar degree with a focus on embedded software development, or similar experience.
- Preferred to have at least two years' experience working on a *FIRST* Robotics team
- Experience in programming languages; C, C++, Python, or similar in embedded applications such as Arduino-type controller experience
- Experience in working within a CAN communication network
- Experience with circuit board design and software such as Altium, Diptrace, Easy EDA, Eagle CAD, KiCad, etc.
- Electric component usage experience and familiarity required, such as brushed and brushless motor controllers, vision systems and sensors
- Customer service experience a plus

**Work Environment:** Most work is performed in an office environment. This role routinely uses standard office equipment such as computers, phones, photocopiers, filing cabinets and fax machines, and standard warehouse equipment such as hand trucks, box cutters and tape dispensers.

Engineers will occasionally go out to the warehouse and manufacturing area for parts, observations, and research. The employee may be exposed to fumes or airborne particles, moving mechanical parts, and vibration.

**Physical Demands:** The physical demands described here are representative of those that must be met by an employee to successfully perform the responsibilities and tasks.

While performing the duties of this job the employee is regularly required to sit, walk, stand, use hands and fingers, handle or feel, reach with hands and arms; and talk or hear. The employee will frequently lift or move objects up to 10 pounds and occasionally lift or move objects up to 25 pounds. Specific vision abilities required by this job include close vision, distant vision, color vision, and the ability to adjust vision.

**Travel:** This position has no company travel requirements but may be asked to assist with *FIRST* competition needs.

**EEO/AAP Statement:** *AndyMark, Inc. provides equal employment opportunity to all individuals regardless of race, color, creed, religion, gender, age, national origin, disability, veteran status, and sexual orientation or any other characteristic protected by state, federal, or local law.*

*NOTE: The responsibilities and tasks outlined in this document are not exhaustive and may change as determined by the needs of the company. Duties, responsibilities, and activities may change at any time with or without notice.*