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## Senior Engineer

**SPAULDING MEDICAL** aims to provide hospital quality cardiac care that is affordable and accessible to all God's children.

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Reports to: Engineering Manager

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### **Job Summary:**

The Software Engineer will be responsible for meeting several programmatic requirements. Tasks will include developing a shared library to be utilized by cross-platform mobile applications, cloud-based server applications, and serverless computing platforms for the company's proprietary ECG device. Throughout product lifecycles, the Software Engineer will be responsible for implementing improvements to this shared library. The Software Engineer will need to have the technical skills to meet these requirements as well as the ability to author technical documentation for the projects they manage. The Software Engineer must have a willingness to learn new technologies and be agile in using skills to meet ever-changing demands and requirements.

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### **Essential Duties and Responsibilities:**

- Designs and develops a shared in-house library to be utilized in multiple projects running on several different platforms.
- Authors technical documentation surrounding software projects.
- Coordinates with other backend web developers ensuring efficient and secure integration between software components
- Coordinates with technical support personnel to troubleshoot and debug software / hardware issues.
- Contributes to discussions on software architecture and continuous application improvement.
- Participates in software testing and validation.

The Statements made in the job description are intended to describe the general nature and level of work being performed by people assigned to this job. These statements are not intended to be an exhaustive list of all responsibilities, duties and skills required of people assigned to this job.

### **Skills/Qualifications:**

#### **Required**

- Strong background in Java, C / C++ and object-oriented programming
- ~~Experience developing applications using C# / .NET Core~~
- Experience developing bridges between C++ code and other platforms (e.g. Java Native Interface, Objective-C++, C++ / CLI, P / Invoke)

- Ability to read, write, and interpret the English language
- Experience writing technical documentation for software
- Excellent planning and organizational skills
- Excellent oral, written, and presentation skills
- Confident in ability to learn new technologies as required
- Strong time management and problem-solving skills

**Preferred**

- Experience analyzing programs for efficiency and implementing optimizations
  - Experience configuring and compiling software in a headless Linux environment
  - Experience with Docker or similar virtualization platform
- Experience developing in a GXP environment
- Experience developing FDA and Internationally regulated medical devices
  - Familiarity working with and under a ISO/IEC 62304 compliant software development process
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**Physical Demands:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Ability to sit, stand, walk, reach with hands and arms, and use hands along with fingers, to handle or feel.
  - Ability to lift and/or move up to 25 pounds.
  - Specific vision abilities required by this job include clarity of vision both near and far.
  - Ability to identify and distinguish colors.
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**Education and Experience:**

- Bachelor's degree in Computer Science or Computer Engineering
  - 2 - 4 years of experience in a related field
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*Spaulding Medical management has the discretion to hire personnel with a combination of experience and education which may vary from the above listed skills and qualifications.*

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This is to acknowledge that I have read and understand the above job description. This copy supersedes any others previously distributed. I further understand that Spaulding Medical may

change, add or delete any essential duties and responsibilities described at its discretion with or without prior notice.

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Employee Name (Printed)

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Date

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Employee Signature