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Company: Medical Device Manufacturing  
Job Position: Full time  
Job Location: Fremont, CA

We're seeking for a full time Software Algorithm Engineer.

**Job Summary:**

The software algorithm engineer designs and implements complex algorithms for the ROBODOC system.

**Travel Requirements:**

This position may require less than 5% travel.

**Responsibilities:**

- Design, implement, and test complex algorithms for robotic surgical assistant and pre-planning station.
- Work with software group to integrate algorithms into final release of software.
- Follow rigorous design control methodology and writes concise requirements specifications, architecture specifications, and design description, verification plans, and test cases.
- Performs unit testing of software and assists in the verification and validation process of the complete designs.
- Manages schedules, meets, and adhere to development goals.
- Provides planning and status information to project manager.

**Qualifications:**

- 3+ years experience developing complex algorithms as well as experience developing software products with C/C++, preferably in the medical device industry.
- Strong background in complex algorithms including computer vision, machine learning and classification.
- Experience with VTK, ITK, or other graphics and image processing software.
- Experience with 3D modeling.
- Experience with Matlab.
- Experience with QT application framework or similar GUI framework.
- Strong working knowledge of object-oriented programming and system design.
- Excellent communications and documentation skills.
- Medical instrument development (FDA design controls) and industry experience preferred, but not required.
- Masters Degree in computer science or other relevant field.
- Strong academic records.

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- Knowledge of FDA Quality System Regulation, ISO 13485 (Quality System) requirements, ISO 14971 (Risk Management) requirements, and Medical Device Directives (MDD) requirements, IEC 62304 Medical Device Software – Software Lifecycle Processes, General Principles of Software Validation – FDA Guidance, and IEC 62366 Medical Devices – Application of Usability.
  - Understanding of:
    - FDA medical device regulations, guidance, and import/exports requirements.
    - Medical device labeling and promotional requirements
    - Medical device quality systems
    - Product development processes
  - Knowledge of good manufacturing practices (GMP) and applicable Quality System Standards

We offer a fast-paced work environment, and a very competitive compensation, medical and 401K retirement plan benefits available

We are an equal opportunity employer and encourage diversity.

To apply: Please submit resume and Cover Letter to HR dept at [jobs@robodoc.com](mailto:jobs@robodoc.com)

**Company Overview:**

The Company is a pioneer in medical robotics and world leader in image-directed, robotic products for orthopedic applications. The Company's product allows surgeons to pre-operatively plan their surgery in a 3-D virtual space and then execute the surgery exactly as planned in the operating theatre.