

Join our Team!



Application Software Engineer



About the job

Eindhoven Medical Robotics develops high-precision autonomous surgical robots. A surgeon will use an application to define an accurate pre-operative plan to perform autonomous surgery. The plan will then be transformed into a trajectory for the robot. The robot can then autonomously (under supervision) perform the surgery according to the planned trajectory.

As a software engineer, you will help develop medical software that is easy to use, has good performance and has high accuracy. The core of the job is about designing, implementing and maintaining an application to interact with the real-time robot control software and a service application for installing / retrieving data from the system. You will perform your tasks as part of a multi-disciplinary team that consists of mechanical, electrical and software engineers that collaborate closely with our clinical partners. Besides your software responsibilities, you are expected to become proficient in writing documentation and working according to industry standards such as ISO13485, IEC62304 and IEC82304, to bring medical devices to market.

Projects to work on

The project encompasses the complete software from the user interface, service application to the embedded firmware of the hardware components. The focus on this job application lies on:

- Developing the user interface application for interacting with the surgeon.
- Developing the service application for service engineers for maintenance of the robot.

Responsibilities

- Be an active member of a multi-disciplinary team.
- Specify requirements for software modules and products.
- Develop software, write automated tests and perform code reviews.
- Define and perform manual tests and / or user tests of our product.
- Write technical and process documentation.
- Work in a CI/CD environment, develop software in an iterative way.
- Deliver code according to the company standards, principles and adhere to the desired quality.
- Focus on improving the code by developing ownership, listening to feedback and give feedback to other team members.

Education, Experience

- Experienced in C++ 11 or higher, Qt.
- UI / UX experience, designing user interfaces.
- Cmake build environment.
- Microsoft Visual Studio.
- Messaging protocols (ZeroMQ, Google Protocol Buffers).

- Writing automated tests (Google test), defining integration test.
- Experience integrating internal and third-party solutions.
- Experience with development tools like Jenkins and version control systems like git.
- Degree in Scomputer science.
- Work experience in a medical environment, or experience with medical standards is a plus, such as PACS, IEC62304 etc.

Languages

- English.
- Dutch is a plus.

Location

Eindhoven, The Netherlands. We are located close to Eindhoven Central Station.

Our offer

We offer a full-time job in an informal and stimulating work environment with innovative products and high societal relevance. An attractive market-conform remuneration package with excellent benefits will be offered.

Contact

Email: recruitment@emrobotics.com

Or go to: www.emrobotics.com/career/

