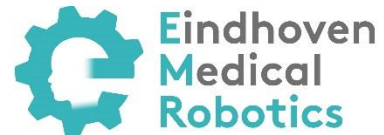


Join our Team!



Embedded Software Engineer

 [@EMRobotics](#)

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About the job

Eindhoven Medical Robotics develops high-precision autonomous surgical robots. The robot requires state-of-the-art real-time control and safety software to perform autonomous surgery, while adhering to the stringent requirements for medical devices.

As an embedded software engineer, you will be developing embedded control software for the autonomous surgical robots developed by Eindhoven Medical Robotics. The core of the job is implementing safety strategies, control algorithms, sensor interfaces and communication protocols between different components of the surgical system. Given that this is a medical device, there is a strong focus on safety to implement multiple safety and diagnostic layers in the system. You will perform your tasks as part of a multidisciplinary team that consists of mechanical, electrical and software engineers that collaborate closely with our clinical partners. Other than your software responsibilities, you are expected to be proficient in writing documentation and working according to industry standards such as ISO 13485, IEC 62304 and IEC 82304 to bring medical devices to market.

Key responsibilities

- Be an active member of a multidisciplinary 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, listen to feedback and give feedback to other team members.

Education, Experience

- Experienced in C and C++ with full professional proficiency in at least one.
- Experience with MATLAB/Simulink.
- Experience with different architecture microcontrollers, sensors, encoders and motors.
- Knowledge about communication protocols such as SPI, EtherCAT or BiSS.
- Experience with a real-time operating system.
- Understanding control theory.

- Linux and Bash scripting experience is a plus.
- Knowledge about coding standard like MISRA is a plus.
- Experience with development tools like Jenkins and version control systems like git.
- Degree in engineering or computer science.

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/

