Embedded System Engineer for Lymphatica Medtech

Lymphatica Medtech SA

Lymphatica Medtech is a pioneer in implantable systems for lymphedema treatment. Spin out of EPFL and CHUV in 2017, the startup has received national and international recognitions for its breakthrough approach, as the competitive EIC pilot and Swiss Accelerator grants, the Mass Challenge Gold Award and the InnoSuisse Certification.

We work in a small, competent, young and motivated team, implementing an ambitious project to have a significant impact for lymphedema patients and society as a whole.

Job Summary

The primary purpose of the Embedded System Engineer is to lead efforts in the Research & Development Team to design, develop, test and refine Firmware as part of a medical device. Specifically, the Embedded System Engineer is responsible for the development and improvements to the Hardware of a Wearable Medical Device, and related Systems. As part of working in a cross functional technical environment, this job requires coordination with the management team, the quality team, suppliers, business partners and clinicians to ensure project success.

Responsibilities

- Serves as the Firmware Expert in the Development Team.
- Participates in the planning and management of the development activities of current medical devices in Lymphatica's portfolio and future products in Lymphatica's product pipeline, focusing on embedded systems and following the indications and budget from the management team.

- Plans and executes development activities according to medical device regulatory requirements.
- Ensures the execution of the planned development activities.
- Maintains, administers and effectively works within component database systems.
- Designs Microcontroller Hardware and Interface Systems (Medium Complexity, Compact Design PCBs)
- Develops Firmware for Microcontrollers (ARM) including Real Time Systems and Diagnostics Scripts
- Co-Responsible for General Analog and Digital Design including I/O, Power/Battery/Charge circuit; ensuring RoHS Compliance.
- Co-Responsible for PCB Design including Schematic Capture, BOM generation, Designs for Test, and quick-turn prototyping
- Ensures design for Regulatory Compliance (Safety and EMC/EMI).
- Manages and coordinates suppliers' activities in collaboration with the head of R&D
- Coordinates with the quality and regulatory department for the adaptation of Lymphatica QMS to better regulate embedded system development activities.

Qualifications

- Electrical engineering diploma or equivalent degree.
- At least 5 years' experience in developing embedded systems in the field of medical devices. Relevant PhD/Post-Doctoral experiences are considered.
- Ability to work independently and as a member of a team.
- Firmware Development experience.
- General Analog and Digital Design experience.
- Familiar with ECAD software (KiCAD, Altium).
- Test Equipment understanding (signal generator, power meter, oscilloscope, etc.).
- Project Management Experience.
- Familiarity with ISO 60601-1 standards.