Hardware Engineer

The company

VitalWear is an early-stage startup company based in Eindhoven, developing solutions based on integrated photonic sensing technology, integrated into textiles and clothing, for non-invasive medical applications. Our vision is to become a leading provider of medical grade wearable sensors that can safely, continuously, autonomously, and comfortably monitor relevant patient information. Our first application is aimed at the early detection and more effective prevention of pressure ulcers, a global healthcare problem which is growing due to the aging population.

VitalWear is currently recruiting for several roles to further build its technical team towards the development of its functional prototype and, subsequently, its Minimum Viable Product.

Your motivation

Are you seeking a challenge within a dynamic startup environment? Do you want to apply your skills to make a positive impact on society, by reducing the pain for patients and by supporting nurses in delivering a high quality of care? Are you passionate about innovating and excited about taking responsibility for creating and delivering a solution that you can be truly proud of?

If so, then this opportunity is for you!

Role and responsibilities

As Hardware Engineer at VitalWear you will be a member of our Engineering team and you will be responsible for designing, realizing, and validating VitalWear's sensor solutions. Together with your colleagues and with VitalWear's partners, you will work (a.o.) on developing the sensor layout design, on the integration of optical fibers into textile carriers, on enabling connections between system components and on the robustness and scalability of the VitalWear solution.

In particular, you will be responsible for:

- Developing designs for new product generations
- Designing for High Volume Manufacturing
- Validating designs via small-scale prototypes or simulations
- Assembling of textile sensors in our in-house laboratory
- Analyzing and characterizing performance via experiments

- Contributing to continuous improvement based on test results or customer feedback
- Collaborating with partners/suppliers to adapt existing manufacturing processes in the textile industry to enable large scale integration of optical fibers
- Generating documentation and reports

Cross-functional contributions:

- Generation of patents, reports and/or publications
- Contributing to the implementation of a Quality Management System (documentation of designs, design and change control processes)
- Expansion of laboratory infrastructure and capabilities, including automation
- Competence sharing among team-members

We are looking for a professional with

- A Master degree in Mechanical, Electrical, Mechatronics Engineering or a similar discipline
- Knowledge of hardware design tools
- Hands-on mentality
- Solid analytical skills
- Strong verbal/written communication skills in English
- An innovative, enthusiastic, driven, self-starter personality

Will be considered as a plus:
- Experience with Fiber Optics or Photonics
- Relevant work experience in R&D, in healthcare and/or within a startup company
- Fluency in Dutch
- Good programing skills and experience especially with Python, C/C++ and/or MATLAB

We offer

- Opportunity for personal development and fast growth
- Opportunity to shape tomorrow's healthcare by developing ground-breaking technologies
- A warm, open, dynamic and friendly startup environment
- Possibility to benefit from the success of the company

Join us at VitalWear as we embark on our journey to transform healthcare through innovation and technology. Make your mark and contribute to a brighter, healthier tomorrow. Apply now to be a part of our pioneering team!