

## **MECHANICAL/ELECTRONICS DESIGNER – Pressure Imaging Sensors**

### About XSENSOR Technology Corporation

XSENSOR is the leader in Intelligent Dynamic Sensing. Creating excellent products and satisfying customers is our top priority. For over 25 years, we have delivered innovative products that use pressure imaging technology to improve the comfort, safety, and performance of surfaces. Superior products ensure XSENSOR is continually identified as the leader in the markets we serve, including the human performance, automotive, health care, biomechanics, and sleep industries.

### Job Description

Reporting to the VP of engineering, you will be responsible for the design, development, and transfer to manufacturing of sensors. You will be involved in developing processes for manufacturing those sensors and in testing and troubleshooting new and legacy products.

The product development team is responsible for the research and development of all XSENSOR technology and products. The team consists of system, software, and sensor design engineers. This is an opportunity for someone who is technically strong, enjoys working with their hands, is creative and innovative, and has a passion for developing high-quality products and manufacturing processes.

### Responsibilities

You will design sensors using advanced materials, such as conductive textiles, for a wide range of use cases. You will work alongside research and development and production teams, designing sensors to specifications or advancing the performance of XSENSOR's sensor portfolio. Your tasks would typically include:

- Devising products to meet performance specifications
- Developing product prototypes
- Developing sensor build manufacturing processes
- Using computer-aided design (CAD) software to create new designs
- Developing design documentation, such as assembly drawings, bills of materials, and process build documents
- Assessing technical performance specifications and carrying out rigorous testing, recording test results, and writing test reports
- Researching new techniques and technologies
- Identifying the suitability of materials and bonding techniques
- Writing technical reports and cost estimates
- Training manufacturing people to build and test sensors

## Work Experience & Skills

- Strong mechanical design skills
- Experience in modelling and production processes
- Development of mechanical drawings using CAD software such as NX, SolidWorks, Fusion360, AutoCAD, and or DraftSite
- Experience in CNC
- Design of experiments
- Deep understanding of material properties
- Fundamental electronics knowledge
- Defining and directing the work of suppliers and vendors
- Great attention to detail
- Desire to learn and quick to adapt to new systems
- Outstanding analytical and problem-solving skills
- Ability to effectively multitask
- Excellent communication and interpersonal skills

## Nice to Haves

- Knowledge of the textile industry, including markets, processes, materials, adhesives, and textile chemistry, would be an asset.
- 3D printing (FDM, SLA)

## Education

Bachelor's degree in mechanical, mechatronics engineering, or equivalent education and experience

XSENSOR offers a challenging work environment, competitive salaries, and a complete range of benefits. If you are interested in becoming part of a successful company, learning about unique products, and being part of a dynamic team, send your resume to: [hr@xsensor.com](mailto:hr@xsensor.com)