Hydrogen is the future, we can sense it™

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Senior Mechanical Engineer

About H2Scan:
H2scan is the world leader in providing solid-state hydrogen sensors. Our sensors are considered the gold standard for improving electrical distribution reliability, optimizing measurements in refinery & petrochemical plants, and are ideal to monitor/measure hydrogen concentration in fuel cells, electrolyzers, and hydrogen distribution pipelines to reduce carbon emissions. When you join our team, you will be working side by side with talented engineers, scientists, and manufacturing professionals. You will be developing exciting, cutting-edge products to enable the expansion of the Hydrogen Economy, which is a cornerstone to the planet's decarbonization. From fuel cell vehicles to hydrogen-powered appliances, the opportunities are limitless. We offer highly competitive compensation, a flexible work schedule, and a fast-paced, fun work environment.

Department: Engineering
Reports to: Manager of Mechanical Engineering
FLSA Status: Exempt

Job Description:
Senior Mechanical Engineer with an emphasis on automation and industrial controls design. Works with a cross-functional engineering team including electrical, systems, software, and other mechanical engineers. Design projects include new sensor product developments, product line extensions and accessories, and automation system developments. Familiar with a variety of mechanical design engineering concepts, practices, and procedures, including experience with GD&T and design for manufacturing. Relies on extensive experience and judgment to plan and accomplish goals.

Responsibilities:
To perform this job successfully, an individual must be able to perform the following satisfactorily; other duties may be assigned. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Design of mechanical components and assemblies using SolidWorks
- Design of mechanical fixtures or tooling incorporated into automation equipment in production
- Design of industrial controls, PLC programming (ladder logic), automation systems
- Integration of automation with hardware mechanisms and systems
- Create detailed mechanical component and assembly drawings using SolidWorks
- Design for high volume manufacturing
- Leverage rapid prototyping methods for early design verifications
- Evaluate, select, and procure mechanical equipment and materials for prototypes

- Coordinate with engineering technicians for prototype assembly and testing
- Coordinate with production technicians for hand-off/release of production products

Qualifications:

- Bachelor's of Science degree from four-year college or university in mechanical or aerospace engineering, 10+ years related experience in mechanical design engineering; or equivalent combination of education and experience
- Ability to perform thermodynamic, fluid, vibration, structural and other environmental analyses as part of product developments.
- Apply GD&T on all mechanical designs.
- Fundamental understanding of electronics packaging and sensor (analog and digital) functionality.
- Experience with precision machining, product assembly, design fixtures, system and subsystem integration.
- Experience with mechatronics, programming PLCs, and design of industrial controls for automation
- Experience designing for high volume manufacturing (injection molding, die casting, extrusions, etc.)
- Experience taking a project from concept through production
- Computer Skills: Microsoft Office (expert level), SolidWorks (10 years minimum), SolidWorks Simulation, Vector Graphics Design (Adobe Illustrator Preferred), Siemens SIMATIC STEP7 or equivalent, Python experience preferred

Benefits:

- Health Insurance benefits
- 401(k)
- Life insurance
- Family leave (parental, maternal)
- Bonuses
- Equity/stock options
- Three weeks paid vacation
- Paid sick days
- FSA/HSA
- Cell phone reimbursement