

History

Founded in 2000 in Houston, Texas, itRobotics is a pioneering technology company operating to provide state-of-the-art non-destructive inspection service for small diameter energy pipes using the latest robotic technology. In November 2002, it established its design and manufacturing facilities in Stafford, Texas.

In July 2006, itRobotics was the proud recipient of a grant from the Texas Emerging Technology Fund (TETF). itRobotics inspection solutions target unreachable and non-piggable small diameter piping systems.

A Tech Company with Expertise

Let leading innovators in the inspection technology world keep you operating smoothly. At itRobotics, we develop and manufacture leading edge robotic and external pipe inspection systems.

ISO 9001 Compliance

Delivering the highest quality service through highly qualified and certified inspection staff, using state-of-the-art technology and standards, itRobotics focuses on meeting customer needs and exceeding their expectations.

Associations

Society of Petroleum Engineering (SPE), Intervention and Coiled Tubing Association (ICOTA), American Petroleum Institute (API)

Careers

RF Electronics Engineer

itRobotics invites inquiries from individuals possessing a generally broad of knowledge of electronics as well as several years of practical experience in two areas of specialization: (i) the design and use of low frequency (less than 5 MHz) MOSFET pulsed power electronics and (ii) the design and use of low noise RF receivers and especially how to incorporate them into ultrasonic and other analog measurement systems operating within electrically noisy environments. Design experience is not mandatory but the successful candidate must have hands-on experience at both the board and system levels. This should include experience such as initial analog system breadboarding and fabrication, debugging low noise amplifier systems to isolate “hidden” noise sources and trouble-shooting analog circuits that form the front end of RF analog sensors and sensor systems operating over the frequency range of 10 kHz to 5 MHz. This work may require the selection and, if necessary, design of low-noise power supplies for these sensitive analog modules. A successful candidate will likely have a Master’s degree in some area of electrical engineering, physics or material science and a few years of relevant work experience with at least some of this experience dealing with lab and field instrumentation projects.

Development Engineer

Summary Description

In this position, a successful candidate will research, develop, design, and test electro-mechanical systems

and devices that are used in Nondestructive Testing (NDT) and Nondestructive Evaluation (NDE) applications while working closely with a small interdisciplinary team of mechanical, electrical, and software engineers.

Job Duties and Tasks

- Create innovative mechanical designs for parts, assemblies, or products for NDT/NDE applications.
- Conduct stress analysis for mechanical components using suitable engineering software.
- Own all phases of engineering design process including: brainstorming, concepting, rapid prototyping, design, analysis, drawings, manufacturing, assembly, and validation.
- Research, select, or apply sensors and control devices for position sensing and motion control for robotic NDT/NDE inspection systems.
- Create embedded software to implement appropriate control algorithms

Technology Skills

- Working experience with CAD, with preference towards SolidWorks.
- Proficiency in Matlab and LabView is a plus.

Qualifications

A prospective candidate should have a master's degree with thesis in Mechanical Engineering, mechatronics or equivalent discipline, or a bachelor's degree with a minimum of 2-3 years of industrial experience.