

Test Engineer

About the Job

The successful Engineer at DE Design Works enjoys working in a casual collaborative team environment with other engineers and customers on a variety of product development projects which typically include custom hardware and software, wired and wireless communications technologies, control systems, and user interfaces. The team member is comfortable working independently and collaboratively on multiple projects, balancing priorities, designing PCBA layouts and enclosures for complex analog, power, and high-speed digital circuits, and strives for continuous learning. The engineer will work closely with lead engineers to layout complicated printed circuit board assemblies, create Solid Works files, and be skilled at trouble-shooting manufacturing and design issues. This is a great opportunity to work with the latest technology and a world class team bringing products to life.

About the Company

DE Design Works is an engineering services firm specializing in napkin sketch to production product development with core competency in embedded firmware, application software development, printed circuit board (PCBA) hardware design, quick turn prototyping, pre-certification testing, and management consulting for scaling the manufacturing of electronic assemblies to volume production. DE Design Works (formerly Dave Engineering LLC) has been in business since 2002. We strive to provide our customers with innovative, high-quality solutions through the deployment of cutting-edge technology and services that exceed the customer's expectations. Our customers range from small to large corporations that represent industrial, commercial, medical, and military market segments. Through vertical integration of our skilled engineers, DE delivers complete designs with expertise in hardware, software, systems, and mechanical disciplines.

Desired Skills & Experience

Responsibilities:

Design embedded printed circuit board hardware and software test plans and document test procedures. Responsibility for Quality Management System (QMS) and Hardware Release control systems maintenance. Create test and management reporting tools, HMIs, and GUIs using Python, C#, .NET, Linux QT software. Use PCB layout, schematic capture, and Excel to assist in alternate component procurement. Assist in certification testing and lab compliance for conformance to standards for UL, IEC, CSA, ETL, FDA, SAE, MIL, etc. Assist in ISO compliance preparation activities. Quality assurance (QA) tasks working with technicians in quick turn production build testing activities. Work with management, engineering team, and customers to develop and document requirements, procedures, and production documentation in continuous improvement. Support IT/IS related tasks such as network, phone, security, server, email, website, backups, security and ISO compliance. Contribute in software development including (but not limited) to website development, SmartSheet API and Egnyte Cloud integration, .NET application programming, and QMS related continuous improvement. Communicate with customers regarding test plan requirements gathering needs, and proposal development efforts. Support prototype manufacturing and business development operations. Some occasional domestic travel to customer locations, compliance labs, and trade shows as needed.

Qualifications & Technologies:

Required: B.S. in Electrical Engineering or equivalent engineering degree

Desired: Experience in documentation, test, prototype builds, GUI/HMI programming, using PCB lab equipment such as oscilloscopes, power supplies, and dynamometers as well as working with a team of engineers. Development of quality procedures, documentation, source control, design for manufacturing, SAE, IEC, UL, ETL, MIL-STD compliance. Expertise with tools such as OrCAD Allegro, Excel, Altium, Solid Works, .NET, and Linux. Education in analog and digital circuit design, ESD/RFI/EMC compliance, RF wireless, optimum grounding and power supplies.

Please email resume to hr@dedesignworks.com