



## Hardware Design Engineer

### Essential Duties and Responsibilities

- Develop RFID tag and reader products focusing on electrical subcomponents.
- Identify and characterize and qualify key components.
- Perform feasibility studies with focus on technology, material, assembly and electrical solutions which comply with product specification.
- Perform board bring-up, design validation and product qualification.
- Create hardware test plans and protocols, functional specs and test reports.
- Lead design reviews and prepare documentation, datasheets and specifications.
- Work closely with Firmware and Software team to develop interfaces and drivers.
- Develop board layouts and perform signal integrity analysis.

### Skills/Requirements

- Expertise in digital and analog design
- Experienced in using lab equipments such as scopes, logic and spectrum analyzers, etc.
- Expertise in interface design such as USB, Ethernet, UARTs, Bluetooth and Wi-Fi.
- Expertise in FPGA, microcontrollers, signal conditional and sensor circuits.
- Understanding battery technologies.
- Capable of developing firmware and participating in code reviews.

### Additional Desirable Qualifications

- Knowledge of RF design concepts and RF test methodologies.
- Understanding of Antenna technologies and test parameters.
- Experience working with Linux.

### Education

- BS or MS degree in Electrical or Computer Engineering.
- Minimum of 5 years related experience.