



## Senior Firmware Engineer

### **Essential Duties:**

Primarily responsible for developing, creating, and modifying embedded software applications for Energous power transmitters and receivers. Specific duties and responsibilities include, but are not limited to, the following activities:

- Develop software prototypes to demonstrate functionality and interaction models
- Analyze user needs and software specifications to determine feasibility of design
- Develop Models in MATLAB for optimize beam forming
- Design and Implement algorithm in embedded system
- Design and/or customize software to optimize operational efficiency and reduce code size;
- Perform firmware unit testing and validation procedures
- Consult with QA and software engineers in identifying and resolving customer and technical issues
- Generate technical documentation of algorithm and firmware development

### **Skills/Qualifications:**

- M.S. in Electronics and Communication or related field or foreign degree equivalent.
- Minimum of 2 years of experience in embedded digital signal processing and algorithm development
- Solid knowledge of analytic techniques, statistics, mathematical modeling
- Strong expertise in Matlab for DSP application and algorithm development
- Strong expertise in debugging embedded application
- Proficiency in C and Linux/Windows based development
- Hand on experience with bare metal and RTOS (threadx, Free RTOS etc.) is a plus
- Hand on experience in one or more of the following – Ethernet, SPI, UART is a plus