

Electrical Engineer

Responsible for the development, implementation, and continued support of hardware and firmware relating to an automation solution used in warehouses.

Hardware responsibilities include:

- Analog circuit design for signal conditioning and ESD protection
- Digital circuit design for high speed data busses
- Design for manufacturability at offsite contract manufacturers
- Interfacing with interdisciplinary teams, primarily mechanical and software engineers
- Project planning and scheduling
- Hardware debug oscilloscopes, multimeters, etc.
- Hand assembly using soldering irons and basic lab tools

Firmware responsibilities include:

- Writing register-level procedural C code using Atmel Studio
- Designing effective unit test and regression test procedures
- Transmitting data over various communication protocols; SPI, I2C, USB, RS232
- Digital signal processing
- FPGA code design using System Verilog
- Working with embedded Linux operating systems

Minimum requirements:

U.S. Bachelors of Science or foreign degree equivalent in Electrical or System Engineering or related field followed by 5 years of experience in electrical design.

Experience must include the following:

- Design for manufacturability;
- Strong knowledge of industry standard computer aided design (CAD) tools;
- Firmware programming in C and C++; Experience with Linux and QNX operating systems;
- Development of analog and digital circuit design;
- Lab skills: soldering, oscilloscope, digital multi-meters.

Job Location: 6 River Systems, 117 Beaver Street, Waltham, MA 02452. 40 hours per week, 9:00am to 5:00pm.
Send resume and letter of application detailing experience to Rylan Hamilton, 6 River Systems, 117 Beaver Street, Waltham, MA 02452; jobs@6river.com.