



COMPANY: Cypress In-Line Inspection (“Cypress”)	JOB TITLE: Electrical Engineer (Contractor)	Position Type: Hourly (Non-Exempt)
OTHER: Position reports to Engineering Director and located in Salt Lake City, UT Operations Center		

GENERAL SUMMARY

Cypress is a young technology company serving the municipal water and energy industries. We develop ultra-high resolution in-line inspection (“ILI”) tools offering high resolution images of pipelines to assist the owners in managing their pipeline integrity to protect property, people, and the environment. These ILI tools are complex and utilized to inspect both municipal water pipelines that transport precious drinking water, and energy pipelines that transport various hydrocarbon products including gasoline, diesel, jet fuel, crude oil, natural gas, natural gas liquids, and other products routinely transferred via underground pipelines. Our technology utilizes axial Magnetic Flux Leakage (“MFL”) technology. We work for some of the most prestigious municipal water authorities and energy pipeline companies in the world including City of San Francisco, Jordan Valley, North Jersey Water Supply Commission, Washington County Water, United States Air Force, City of Denver, Chevron, Dominion, DCP Midstream, Plains All American Pipeline, Phillips 66, Targa Midstream, etc.

POSITION SUMMARY

This Electrical Engineer will be responsible the development of PCBs and collaboration with mechanical designers to integrate PCBs into the mechanical systems as well as collaboration with other electrical, firmware, and software development engineers in technical reviews. Technical work includes the capture of technical requirements, schematics development, and PCB layout design. This role requires good communication with other teams within the organization as a key contributor to the development of new electromechanical systems.

- PRINCIPAL DUTIES & RESPONSIBILITIES (other duties may be assigned)**
- Schematic capture and PCB layout for low power analog and digital designs in Altium Designer
 - Create and maintain technical documentation for PCB layout and design
 - Troubleshoot and resolve any PCB design and layout issues
 - Work closely with mechanical designers, and firmware engineers to achieve project requirements.
 - Apply best practices and development processes to ensure successful new product developments as measured by timeliness, quality, product cost, and investment.

KNOWLEDGE, SKILLS & ABILITIES

- 5+ years of experience in analog, digital and mixed signal hardware design and implementation
- 5+ years of embedded micro-controller design experience including communication interfaces such as Ethernet, SPI, UART, USB, etc.
- Experienced with simulation packages such as LTspice®, TINA-TI, etc.
- Detailed knowledge of electronics hardware and the ability to integrate designs with mechanical elements, embedded firmware, and sensors.
- Experience in schematic entry and layout design using industry standard tools with excellent understanding of PCB layout design requirements.
- Experience with battery operated system designs and low power strategies.
- Experience with integration of embedded system and user interface.
- Strong analytical and problem-solving skills. Ability to solve problems as part of a multi-site organization and cross functional team is expected.
- Effective written and verbal communication in English.

WORKING CONDITIONS

Office environment may include prolonged sitting and repetitive computer use along with occasional work after normal working hours with time sensitive activities.

PHYSICAL DEMANDS

Duties involve sitting, standing, walking, and bending. Work may require extended hours to ensure project scope is met.

WORKING RELATIONSHIPS/CONTACTS

Internal - Frequent contact with electrical engineers, firmware engineers, mechanical engineers

EQUAL OPPORTUNITY EMPLOYER

Cypress is an equal opportunity employer committed to diversity and inclusion. All qualified applicants will receive consideration for employment without regard to race, color, sex, pregnancy, sexual orientation, age, religion, creed, national origin, gender identity, disability, military/veteran status, genetic information or any other categories protected by applicable law.