



Pile Dynamics, Inc.

Quality Assurance for Deep Foundations

Position: Electrical or Computer Engineering Intern

Location

- PDI maintains its corporate headquarters in Cleveland (Solon), OH.

Outlook

- Pile Dynamics, Inc., a growing company headquartered in the greater Cleveland area, is the largest manufacturer of foundation dynamic testing equipment in the world.
- The pile testing industry is a specialized field in which PDI is the industry leader in terms of knowledge, skill, innovation and size due to its unique history and connection to some of the founders of modern dynamic testing. Since the 1970s this testing sector has been growing consistently and PDI with it.
- PDI is dedicated to pursuing excellence in quality assurance methods by providing quality products with quality service for the deep foundation industry. PDI understands itself as developing the next frontiers in deep foundation testing technology and practice.
- PDI maintains a small firm attitude despite the fact that it has global sales. This allows for a collegial and positive atmosphere despite the challenges of its cutting-edge technology and work schedule.
- PDI has a network of sales representatives spread from the Far East to South America to Australia.
- The products improve the quality assurance of deep foundations on jobsites in over 100 countries throughout the world.

EEO Statement

- Pile Dynamics, Inc. is an Equal Employment Opportunity company. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, or national origin.

Diversity, Inclusion and Connectedness Statement

- Pile Dynamics' commitment to diversity and inclusion are an integral part of our company values. We believe that attracting, developing, and retaining employees that reflect the diversity of our customers is essential to our success. PDI's inclusive culture is the result of our commitments, our collaboration, and our inspiration to grow.

General Summary

An Electrical or Computer Engineer assumes a pivotal role in the organization, tasked with the design and development of cutting-edge electronic instrumentation tailored for civil engineers within the construction industry. This includes the responsibility of designing and developing new technologies as well as innovating and enhancing existing technology to ensure optimal functionality and relevance.

Education

- Currently enrolled in an Electrical or Computer Engineering degree program with completion of Circuits and Electronics, including related laboratories.
- Completion of Embedded Systems is preferred but not mandatory.

Job Responsibilities

- Collaborate with the engineering team to design and analyze electrical circuits for various projects.
- Support the development of prototypes for new electrical systems or components.
- Work closely with senior engineers to build and test prototypes, documenting findings and suggesting improvements.
- Conduct testing and validation of electrical systems to ensure they meet design specifications.
- Assist in developing test plans, conducting tests, and analyzing results to identify areas for improvement.
- Contribute to the design and layout of printed circuit boards (PCBs) for electronic assemblies.
- Create and maintain accurate documentation for electrical designs, including schematics, BOMs (Bill of Materials), and design verification reports.
- Create comprehensive instructions for the production department as required, covering a variety of engineering topics.

Experience

- Proficient in utilizing laboratory equipment, including oscilloscopes (operating and interpreting readings), power supplies, and digital multimeters.
- Experience with microcontrollers and FPGAs is preferred.
- Experience with Capture Schematic is preferred.

Physical Requirements

- Manual dexterity to operate office equipment. Requires extended periods of standing, walking and sitting.
- Normal or corrected vision and hearing to normal range.
- Light Work- Exerting up to 20 pounds of force occasionally, and/or up to 10 pounds of force frequently, and/or a negligible amount of force constantly (Constantly: activity or condition exists 2/3 or more of the time) to move objects.

Level of Supervision

- This position reports directly to the VP/Senior Engineer
- Proactive interaction with the engineering and production departments

This description is intended to describe the general nature and level of work being performed. It is not intended to be construed as an exhaustive list of all responsibilities and duties.