



Zoomlion Heavy Industry N.A., Inc.

Electrical Engineer

Department: Engineering

FLSA Status: Exempt

Grade/Level:

Job Type: Regular

Work Schedule:

Weekdays Monday through Friday unless traveling.

Job Status: Full Time

Reports To: Engineering Manager - Embedded Systems

Amount of Travel Required: up to 10%

Positions Supervised: None

POSITION SUMMARY

Perform engineering duties in planning and design processes of electrical equipment, components or software systems. This includes direct involvement in all related design activities and engagement with cross-functional support staff to ensure project goals are met.

ESSENTIAL FUNCTIONS

Reasonable Accommodations Statement

To accomplish this job successfully, an individual must be able to perform, with or without reasonable accommodation, each essential function satisfactorily. Reasonable accommodations may be made to help enable qualified individuals with disabilities to perform the essential functions.

Essential Functions Statement(s)

- Perform schematic entry using Altium Designer
- Assist in the creation of and review of PCB layouts
- Troubleshoot problems during prototyping
- Generate test cases using test tool suite
- Generate test and test framework scripts using Python
- Assist in the development of low-level C and assembly code for ARM-based processors
- Work with suppliers to source components and finished assemblies

POSITION QUALIFICATIONS

Competency Statement(s)

- Accountability - Ability to accept responsibility and account for his/her actions.
- Detail Oriented - Ability to pay attention to the minute details of a project or task.
- Analytical Skills - Ability to use thinking and reasoning to solve a problem.

- Problem Solving - Ability to find a solution for or to deal proactively with work-related problems.
- Communication, Oral - Ability to communicate effectively with others using the spoken word.
- Communication, Written - Ability to communicate in writing clearly and concisely.
- Presentation Skills - Ability to effectively present information publicly.
- Innovative - Ability to look beyond the standard solutions.
- Organized - Possessing the trait of being organized or following a systematic method of performing a task.
- Systems Analysis - Ability to determine how a system should work and how changes in conditions, operations, and the environment will affect outcomes.
- Self Motivated - Ability to be internally inspired to perform a task to the best of ones ability using his or her own drive or initiative.
- Technical Aptitude - Ability to comprehend complex technical topics and specialized information.
- Conceptual Thinking - Ability to think in terms of abstract ideas.

SKILLS & ABILITIES

Education: Bachelor's degree in Electrical or Electronics Engineering, Computer Science, or related field

Experience: Familiarity with embedded C/C++ firmware development
 Familiarity with ARM assembly language.
 Familiarity working with low-level micro-controller peripherals
 Good understanding of circuit design
 Experience soldering surface-mount technology components
 Experience with oscilloscopes, signal generators, and logic analyzers
 Excellent oral and written communication and interpersonal skills
 Ability to work autonomously on multiple simultaneous projects while still meeting required deadlines
 Good problem-solving skills

Computer Skills: Microsoft Office Suite including Outlook, PowerPoint, Word, Excel, SharePoint, etc.
 Familiarity with Altium Designer or related design tool
 Familiarity with one or more of the following communication mechanisms Controller Area Network, SPI, UART, Ethernet
 Familiarity with PostgreSQL database application and Python web frameworks
 Version control using Git

The company has reviewed this job description to ensure that essential functions and basic duties have been included. It is intended to provide guidelines for job expectations and the employee's ability to perform the position described. It is not intended to be construed as an exhaustive list of all functions, responsibilities, skills and abilities. Additional functions and requirements may be assigned by supervisors as deemed appropriate. This document does not represent a contract of employment, and the company reserves the right to change this job description and/or assign tasks for the employee to perform, as the company may deem appropriate.