**Position Title:**     **Software Engineer**
**Department:**         R&D Engineering
**Reports To:**         Director of R&D Engineering
**FLSA Status:**        Exempt
**Prepared Date:**      1/9/2017
**Approved Date:**      1/9/2017

SUMMARY

The Software Engineer is responsible for providing software engineering expertise for the design, development and delivery of software to support computer products, systems, and subsystems.  This hands-on position requires a demonstrated history of computing software design, debug, validation, qualification, and production readiness.  The successful candidate will possess the ability to work in a highly visible, fast paced, matrix type organization.  This position also requires sound ability to interface with multi-discipline integrated product teams (IPTs) internally as well as disciplined interactions with internal/external design resources, software providers, and customers/product users.  This engineering role will be responsible for developing software solutions to satisfy system requirements and specifications.  Candidates will be involved in all phases of the development process including, but not limited to: requirements analysis, design, code and unit test, integration and system test.

ESSENTIAL FUNCTIONS *(To perform within this position successfully, the incumbent must be able to perform each essential duty satisfactorily. Other duties may be assigned.)*

Define software requirements and participate in design and code reviews.

Develop test plans and automated tests to support internal development, software development partners, and factory validation.

Assist hardware designers to validate system functionality.

Guide software development from specification through qualification, manufacturing and product support.

Provide software design and development using C, C++, or scripting languages.

Perform other duties that may be required.

**Supervisory Responsibilities: Engineers and Technicians** No

BASIC QUALIFICATIONS *(The requirements listed below are representative of the knowledge, skills, and/or ability required and preferred for this position.)*

**Required Education & Experience:**
- Bachelor's Degree in Computer Science (BSCS) or Bachelor's Degree in Computer Engineering (BSCE) with 5 years of experience in an engineering detailed design environment

**Required Knowledge, Skills, & Abilities:**
- Minimum 5 years of experience implementing Linux based operating systems and drivers
- Moderate knowledge of computer architectures, subassemblies, and peripherals
- Moderate knowledge of standard computer interfaces (e.g. Ethernet, USB, serial, etc.)
- Experience with standard PC peripherals and peripheral interfaces
- Software life cycle experience desirable
- Familiarity with software source control standard procedures
- Familiarity with low-level development processes (e.g. boot-loaders, BIOS, kernel components, drivers, etc.)
- No travel restrictions

**Preferred Education & Experience:**
- Experience with Microsoft OS installation tools & techniques preferred
- Experience with Intel x86/x64 and ARM hardware architectures preferred
- Experience with Linux based OS installation tools & techniques preferred
- Understanding of kernel development & compiler techniques preferred
- Experience in aerospace and military environments
- Ability to write reports, business correspondence, and procedures
- Ability to effectively present information and respond to questions

**Physical Demands and Work Environment:**
- While performing the duties of this job, the incumbent is frequently exposed to moving mechanical parts, fumes, or airborne particles, risk of electrical shock and vibration.
- The noise level in the work environment is usually moderate.
- The incumbent may be required to walk and stand for long periods of time.