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## Senior Electrical Engineer

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Intelligent Product Solutions (<http://intelligentproduct.solutions>) is a leading product development professional services company. The leadership and senior engineering team are deeply talented with unparalleled experience in industry and consulting services. Our client base includes some very well-known brands both large and small. Because of our explosive growth, we are seeking talented individuals to join our team.

Our company is seeking highly motivated Electrical Engineers who would enjoy working on diverse and challenging products. We are looking for individuals who have high creativity balanced with strong engineering fundamentals. We seek Engineers experienced in multiple environments with expertise in a diverse set of Hardware and Embedded Software technologies. We are engaged in all phases of the product development lifecycle, from requirements to deployment, constantly working iteratively and delivering quality product through industry standard development practices.

This is an Electrical Engineering position where the individual is expected to perform direct hands-on Hardware development on client projects. Prior experience in performing hardware (digital and analog) as well as embedded software (bare metal, RTOS and Linux based) development is a must. Must understand end-to-end IoT system: from edge device, through cloud as well as a big picture understanding of the Application interfaces such as Android/iOS/Windows Apps or web interfaces.

The ability to work with cross-functional engineering teams is required. We seek high-energy individuals who are self-directed, take responsibility and can manage their individual work; satisfying customers who expect on time and budget delivery that meets or exceeds requirements. Outstanding communication and interpersonal skills are required as this position will require frequent contact with our clients on a technical and business level.

POSITION TITLE: Senior Electrical Engineer  
DIVISION: IPS Electrical Engineering Department  
REPORTS TO: Electrical Engineering Management

### POSITION SUMMARY:

This is position for a senior electrical engineer to perform work in either product design, analysis or manufacturing support or a combination of those areas.

### EDUCATION PREFERRED:

Bachelor of Science in Electrical Engineering  
Master of Science in Mechanical Engineering preferred



### **EXPERIENCE REQUIRED:**

- Minimum 7-10 years experience in electrical design and analysis as applied to small digital/analog design, electronic/mechanical packaging.
- Experience designing microprocessor and microcontroller sub-systems is required.
- Quantitative skills include classical hand calculations of power, timing, noise immunity and thermal analysis as well as detailed tolerance analysis for high precision systems.
- For those in Engineering Analysis roles, significant experience in applying circuit modeling and analysis is required.
- Direct experience in use of CAD tools is required with a preference for those with circuit simulation expertise.
- Knowledge of FPGA/Firmware is desirable but not mandatory.

### **SCOPE OF WORK:**

This is considered a mid-level electrical engineering position intended for those with significant work experience. Engineers in this position will work on a wide variety of tasks ranging in complexity from low to mid-level. The level of responsibility in this position is moderate and is managed by more senior level staff members. Engineers in this position are expected to direct the work of lower level engineers as well as Engineering Aides, Technicians or Drafters in support of assigned tasks.

### **ESSENTIAL FUNCTIONAL RESPONSIBILITIES:**

- Design mid to complex level parts and sub-systems of larger, more complex systems.
- Perform tolerance analysis and simple engineering analysis of electronic sub-systems using classical hand calculations.
- Work in the context of larger multi-functional teams including other electrical engineers.
- Work under the direction of a lead engineer or the Electrical Engineering Manager.
- Required to work independently on smaller projects where they may need to direct the work of a small number of supporting staff members.
- Expected to have achieved competency in schematic design and capture as well as board layout for high speed digital designs as well as analog circuitry applied to moderately complex design tasks if needed.
- May be required to investigate and resolve moderately complex problems.
- Expected to be highly proficient using CAD tools, particularly in regard to circuit simulation, for routine use in the performance of their duties.

### **SUPERVISION RECEIVED:**

Infrequent supervision is required in this position. While engineers will generally serve as team members, it is expected that they will have achieved a level of competency and self-direction not requiring significant oversight. Only unusual or complex problems should need to be elevated to higher-level engineers.

### **SUPERVISION EXTENDED:**

Includes task or small project oriented direction of other lower level engineers, designers, engineering aides, technicians or drafters. In some cases, engineers at this level may be asked to provide performance feedback on staff members working under their direction.

### **CONTACT WITH OTHERS:**

Frequent interface with all members of project team. Periodic contact with management at middle or senior levels. Will have significant contact with external suppliers. Frequent direct customer interaction may occur requiring tactful and sensitive communications. Skills required include both verbal and written forms of communication. Written work should demonstrate high quality obviating the need for higher-level review, except in cases of unusual sensitivity.