



Position: Controls Hardware Engineer
Reports To: Controls Engineering Manager

Basic Function:

This Engineering position is responsible for developing complex designs in conformance with IPS design standards and customer specifications. Responsibilities include participation in the development of engineering standards, design concepts for marketing activities, and complex project design assignments. Communication with customers and functional groups within the company is an important aspect of this position. Engineers in this position must have strong design capabilities coupled with an ability to achieve schedule, budget, and quality objectives.

Core Competencies:

- Experience with AutoCAD for electrical system design required but experience with AutoCAD Electrical is desired.
- Must have demonstrated strong electrical design skills.
- A basic foundation in the mathematics and calculations for the design of electrical systems is required.
- Must have the ability to design electrical systems for CNC and/or PLC control systems.
- Skills must include the design of electrical schematics and application of control system components.
- Knowledge of common US and International Electrical Codes are required.

Preferred Competencies:

- Experience with Allen Bradley PLC's including RSLogix and Factory Talk Studio programming software.
- Experience with Siemens PLC's and/or CNC's including Step 7 and WinCC programming software.
- Experience with Fanuc CNC's including Fladder and Fapt Picture programming software.

Controls Hardware Engineer Job Description

Education/Experience:

- A Bachelor's Degree in the required technical field is desired. In the absence of a Bachelor's Degree, and Associates Degree in the field and 3 or more years of experience is required. Extensive experience and demonstrative performance in the required area will also be considered.

Duties and Responsibilities:

- Develops new designs to meet customer or Marketing specifications.
- Works with supervision to maintain project schedules and budgets.
- Supports the development and maintenance of department standards.
- Documents designs using AutoCAD to IPS and/or customer standards as required by the project.
- Provides assistance to other functional groups (Manufacturing, Assembly, Customer Service, etc.) throughout the life of the project.
- Develop specifications for purchased equipment.
- Prepare Bill of Materials and ENOC's.
- Maintains technical competency and works to expand technical skills and knowledge.
- Some travel is required for this position.

Work Environment Summary:

The individual in this position typically works in an office environment and uses a computer, telephone, and other office equipment as needed to perform duties. Employees may encounter frequent interruptions throughout the workday and are regularly required to communicate with others, use repetitive hand motion, sit, stand, walk, reach, bend, and lift up to 20 pounds. Employees are also required to read, write, interpret data, organize materials, make decisions, and solve problems.

These demands are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. This job description in no way states or implies that these are the only duties to be performed by an employee occupying this position. Employees may be required to perform other related duties as assigned, to ensure workload coverage. Employees are required to follow any other job-related instructions and to perform any other job-related duties requested by their supervisor. This job description does NOT constitute an employment agreement between the employer and employee, and is subject to change by the employer as the organizational needs and requirements of the job change. The job specification requirements stated are representative of minimum levels of knowledge, skills, and abilities to perform this job successfully.

Approval Signatures:

General Manager – Ingersoll Production Systems

Date

Human Resources

Date

The above description covers the most significant duties performed but does not exclude other occasional work assignments, requirements, or working procedures inherent in this job.