AUTOMATION PROGRAMMER/DESIGNER JOB DESCRIPTION

Description

The role of the Automation Programmer/Designer will include automation and controls systems design, PLC/SCADA programming, simulation and testing, and start-up commissioning. The ideal candidate must have a proven track record in developing advanced PLC logic and programming with any or all of the following software vendors: Allen Bradley, GE Fanuc, Siemens, Modicon, Omron, etc.; and HMI/SCADA programming and configuration of any of the following software vendors: Rockwell FactoryTalk View, GE iFix/Cimplicity, Wonderware, Iconics, Siemens WinCC etc.

Position Requirements

- 5-10 years direct work experience programming, testing and commissioning advanced control systems in a variety of industries (i.e. Food Processing, Water/Wastewater, Automotive, Pharmaceutical, Chemical, Mining etc.)
- Possesses advanced knowledge in the areas of system integration, plant floor automation, application programming, database and system design and has a thorough understanding of our capabilities.
- Ability to complete assigned tasks and maintain schedule for multiple projects as appropriate to meet changing needs and requirements.
- Ability to evaluate and convey contractual scope of work and the impact of client issued bulletins and/or scheduling changes to the assigned project manager.
- Background in electrical and instrumentation wiring and troubleshooting an asset.
- Experience at working both independently and in a team-oriented, collaborative environment is essential.
- Can conform to shifting priorities, demands and timelines through analytical and problem-solving capabilities.
- Experience reading electrical schematics/wiring diagrams and PI&D drawings.
- Must have an appropriate college or graduate degree in Electrical/Electronics or Computer Engineering.
- Knowledge of the Ontario or Canadian Electrical Code is a strong asset.
- Programming experience with .Net, C/C++, C#, VB/VB.Net, SQL/TSQL/SQL+ or other high level language is a strong asset.
- Electrical design/drafting experience with AutoCAD Electrical, Eplan, promis-e, etc. is a definite asset.
- Flexible working hours with the ability to travel on occasion.
- Strong written and oral English communication skills. Any other spoken or written languages would be considered an asset.
- Strong customer service and interpersonal skills.
- Must be able to learn, understand, and apply new software and technologies.

Responsibilities

- Complete software programming and hardware/software design using established standards as required. Provides detailed information to communicate design and operation to consultants, clients and contractors as applicable.

- Effectively communicates the status of projects to management and actively pursue additional work through scope changes and change orders.
- Assists with the selection, ordering and delivery of software and hardware for the assigned projects.
- Assists in communicating both technical and business related issues to clients and management.
- Assumes a primary role in the commissioning and testing of all systems defined under our scope of work. Validates complete system functionality and troubleshoots issues with contractors and clients to ensure proper operation.
- Provides site specific software training for owners and operators as required.
- Assists in development and creation of system operation manuals and training material based on project deliverables.
- Provides coaching and mentoring to junior resources and shares experience and knowledge in a collaborative environment.
- Maintain awareness of new and emerging technologies and the potential application on client engagements.
- Develops programming estimates to support cost estimation for quoting and sales initiatives.
- Ensure all documents and programs are complete, current, and stored appropriately upon project completion.
- Keep track of lessons learned on projects and share the information with the engineering and sales teams.