Senior PLC Software Engineer

Job Description

1. Main Purpose of Position

The Senior PLC software Engineer will be responsible for producing software systems for machine control and testing

The engineer will work within a multi-discipline design team and be responsible for undertaking the design of equipment as delegated by the Engineering Manager.

Work will either be undertaken individually or by managing a small team of designers.

2. Specific Areas of Responsibility

- ✓ Produce Basis of Design Specifications, Functional Design Specifications, software test specifications
- ✓ Produce designs that conform to the relevant British and European standards and client requirements.
- ✓ Produce and maintain a technical file in accordance with NIS Quality Assurance requirements.
- ✓ Ensure that the design addresses operability, maintainability, and safety issues.
- ✓ Produce designs that meet with project programmes and budgets.
- ✓ Produce design justification reports that demonstrate the design mitigates all technical risks identified.
- ✓ Produce a level of information to enable the production of PLC SCADA, HMI code
- ✓ Check and test Code
- ✓ Manage a team of EC&I Engineers.

3. Reporting Relationships

Reports to: Principal Engineer
Reportees: Electrical Engineers and Electrical Detailers

4. Standards

- ✓ Compliance with company procedures and policies.
- ✓ Display a professional, acceptable attitude and image for all work associated with and undertaken on behalf of NIS Ltd.

Signed [Senior PLC Software Engineer]:   Date:

Signed [LINE MANAGER]:   Date:

Person Specification

Qualifications	Essential	Desirable
Relevant Engineering degree		✓
Chartered Engineer		✓

Experience & Knowledge	Essential	Desirable
Substantial engineering experience	✓	
Broad based engineering experience in design and manufacturing	✓	
Machine safety directives	✓	
Low voltage control gear	✓	
Control systems	✓	
PLC, SCADA, HMI & Drives Coding	✓	
Software Specification	✓	
Software Testing	✓	
Intimate knowledge of drawing principles and standards		✓
Understanding of the requirements of the CE marking		✓
AutoCAD / AutoCAD Electrical		✓
Nuclear Engineering Experience		✓
HAZOP/HAZID experience		✓

Skills & Abilities	Essential	Desirable
Production of technical reports and documents	✓	
Risk assessment techniques		✓
Engineering substantiation		✓
Resource management and planning skills		✓
SIL rating and BS EN 61508		✓
Effective presentation skills		✓

Other	Essential	Desirable
Self-motivated	✓	
Ability to work to tight deadlines and under pressure	✓	
Full driving licence	✓	
SC Cleared or ability to achieve	✓	
Work on own initiative	✓	
Work in accordance with NIS policies	✓	
Able to work away from home for short periods	✓	

NIS