

## Controls/Commissioning Engineer – Role Profile

<b>Title</b>	<b>Controls/Commissioning Engineer</b>
<b>Reporting to</b>	<b>Controls Director</b>
<b>Purpose of the Role</b>	
To produce design documentation in accordance with the customer requirements and then to program PLC & HMI systems according to the approved design documents. To complete the project, the post holder is responsible for the testing and commissioning of the systems on the customer premises.	
<b>Key Responsibilities</b>	
<ul style="list-style-type: none"> <li>• Provide a high level of skill in interpreting the customer's and regulatory requirements to ensure software designs are perfectly aligned.</li> <li>• Carry out panel/control system design as instructed by the Electrical Engineer to meet business and customers specified requirements</li> <li>• Being constantly commercially aware to maximise value to our customers and maintain a loyal customer base.</li> <li>• Ensure the relevant software design documents are issued in line with the schedule enabling agreed deliveries to be met.</li> <li>• Ensure that design quality is maintained throughout the project by verifying in collaboration with the Electrical Engineer and Design team that the output meets the company's standard operating procedures.</li> <li>• Communicate accurate project status to the Electrical Engineer, internal and external customers and suppliers to ensure they can pro-actively plan.</li> <li>• Compile information and report to Electrical Engineer on the project performance relative to the departments objectives.</li> <li>• Perform the role of technical support in collaboration with the Electrical Engineer during internal and external design review meetings to ensure key design approvals are achieved in line with project schedules.</li> <li>• Plan resource requirements with the Electrical Engineer to develop the project milestones.</li> <li>• Support the machine commissioning activities in collaboration with the commissioning team to a successful FAT &amp; SAT. Work with all Sewtec colleagues to ensure compliance with ISO14001, ISO9001 and OHSAS18001 and support a culture of Innovation and Continuous Improvement by complying with appropriate Standard Operating Procedures.</li> <li>• Work with all Sewtec colleagues to ensure that our internal customer ethos is delivered and maintained through everything we do including right first time, on time and in full.</li> <li>• Always demonstrate respect, integrity, trust and excellence in interactions with all colleagues, customers and suppliers.</li> <li>• Project manage and oversee specific projects ensuring timescales and budget requirements are met by the engineers.</li> <li>• Utilise third party/supplier software to calculate specific requirements</li> <li>• Works to the company's Technical Library of External Standards and Internal Instruction Manuals</li> <li>• Liaise with design engineers to design a control system that meets customer requirements</li> <li>• Ensure data is inputted into the Company's Database</li> <li>• Understand the CE marking process and the steps involved to achieve a machines CE</li> </ul>	

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- Perform site surveys, often involving travel abroad
- Conduct risk assessment on Machinery
- Provide expert input to ensure that the most economical / advantageous design strategy is adopted through collaboration
- Liaise and work in partnership with the Client and Client technical team during the course of the project
- Undertake additional responsibilities and tasks as required
- Support business development activity
- Design Electrical controls panels systems from customer specifications in accordance to BS EN 60204/ BS EN ISO 13849
- Inspect Control panels manufactured internally and externally to BS EN 60204
- Oversee specific projects as instructed by the Electrical Engineer

### **Key Skills**

- Possess a good understanding of engineering principles in Control System design
- Competent (and confident) in all technical aspects of Control System design and development of special purpose machinery (ideally gained within a similar environment)
- Experience in delivering solutions to technical problems
- Experience in Control System design/design analysis
- Experience of undertaking technical calculations
- Experience of working within a multi-skilled environment (i.e. knowledge of electrical and pneumatic components)
- Experienced in managing projects including working to tight timescales throughout the project life cycle
- Ability to provide quality information within deadlines
- Proactive interaction and empathy with other functions and projects
- Strong interpersonal and communication skills, confident and capable in client facing role
- Team-player and ability to work on own initiative
- Strong PC skills
- Attention to detail
- Ability to interpret numerical data
- Strong verbal and written communication skills
- Willingness to travel
- Experience in the software design of industrial automation in a manufacturing environment
- Experience of working in an innovative environment and providing innovative solutions.
- Experience in evaluating technical requirements and providing viable solutions.
- Experience in identifying and reporting long and short term project resource requirements.
- The generation and verification of software design documents
- Interpretation of customer requirements and presentation of design solutions at internal design reviews
- Commercially aware of the effective use of resources, scope change and implications of choice.
- Applying technical due diligence, being risk aware, performing FMEA and using design studies and POP work to mitigate risk.

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<ul style="list-style-type: none"> <li>• Knowledge of British and international standards relative to the design and installation of industrial automation systems.</li> <li>• Experience of conducting assessments and generating technical documents to support the compliance to the Machinery Directive and other British and international standards.</li> <li>• Experience in the validation procedures and application of GAMP</li> <li>• Integration of robotics into automation solutions</li> <li>• Integration of vision systems into industrial automation</li> <li>• Integration of servo drives into industrial automation</li> </ul>
<b>Qualifications</b>
<ul style="list-style-type: none"> <li>• Apprentice trained in electrical or mechatronic engineering discipline and post apprenticeship software design experience</li> </ul>
<b>Key Activities</b>
<ul style="list-style-type: none"> <li>• Ensure innovation, best practice and knowledge sharing within the business and the function</li> <li>• Monitor, report and advise on project progress</li> <li>• Maintain, record and preserve all relevant reports and documentation</li> <li>• Ensure compliance with all Sewtec and Client safe working practices.</li> <li>• Comply with MS requirements for Health &amp; Safety</li> <li>• Comply with MS requirements for Environment (OHSAS 14001)</li> <li>• Comply with MS requirements for Quality (QMS)</li> <li>• Comply with all Company policy and procedures</li> </ul>
<b>Interface Co-operation &amp; Communication</b>
<ul style="list-style-type: none"> <li>• Externally - Clients and / or their agents, sub-contractors and suppliers, other external authorities.</li> </ul>