



CNC ROBOTICS LTD
MANUFACTURING EVOLUTION

Job Title: Control System Design Engineer
Reports to: Systems Team Leader
Based at: CNC Robotics, 3b Olympic Way, Sefton Business Park, Aintree, L30 1RD
Salary: £ available on request

Company Profile

CNC Robotics is the UK's leading robot integrator specialising in advanced machining applications. We are a Platinum KUKA System integration partner after successfully delivering hundreds of automated systems across multiple industries.

Summary

The Control System Design Engineer will have strong design skills. Working on client projects to design, develop and maintain electrical control systems for robotic systems and associated hardware. The Control System Design Engineer will work in the workshop and on client sites as a hands on controls engineer as well as within the design office.

Core Responsibilities

- Generate Electrical Drawings/Block Drawings to outline machine architecture, for example, AC/DC Voltage distribution, PLC Control Systems, Motion Control Systems and Safety Systems (Solidworks Electrical).
- Work as part of a team to carry out a Machine Risk Assessment, including compiling any necessary calculations about the Safety Related Parts of the Control System.
- Understanding and identifying machine hazards designing the Control System to ensure operator safety and generate compliance calculations as required.
- Machine Risk Assessment including compiling any necessary calculations about the Safety Related Parts of the Control System (SPECS) elements.
- Work as part of a team to agree on control hardware, system architecture and assign PLC addressing.
- Take a hands on approach to ensure projects are completed, including supporting build and integration activities.
- Ensure control elements are procured to meet Project Plan phases and work as part of a team to ensure stock levels of consumable items are maintained.
- Generate Control Section of Machine Manual ensuring all relevant information recorded and stored within.
- Complete machine inspection documents before machine trials, factory acceptance tests and/or site acceptance tests.
- Compile EMC Documentation as and when required.
- Fault Finding on Control Systems on Systems and other Supplier equipment.
- Assist with machine debug to ensure the project maintains deadline dates.
- Own and be aware of Project Plan milestones ensuring the Control Design element meets or exceeds planned deadline dates

CNC Robotics Ltd.
3B Olympic Way | Sefton Business Park | Liverpool L30 1RD
0151 523 8009 | info@cncrobotics.co.uk

cncrobotics.co.uk



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- Ensure all duties adhere to CNCR policies, procedures, industry best practise and regulations.

Education and Training

- Degree Qualified person in Electrical Engineering/Control Engineering
- Experience of specifying and programming of Safety PLC Systems. Multiple platforms including Pilz, Beckhoff and Allen Bradley.
- Knowledge of all pertinent Control Standards for compliance with the Machinery Directive and CE Marking requirements from a Control based function.

Person Description

- A trusted team player who fosters sound working relationships.
- Enjoys taking a hands on approach and likes to build what they have designed.
- Able to balance the business need with the technical constraints of projects.
- A natural collaborator with strong communication and organisation skills.
- Has an eye for detail and can maintain focus without feeling overwhelmed whilst handling multiple projects at various stages in a fast-paced SME environment.
- High level of technical understanding, preferably with experience in machine-building projects and/or manufacturing and engineering.
- Naturally curious and passionate about control systems and interested in learning more about new and evolving technologies.
- Passionate about UK manufacturing and working for a small, fast-paced, innovative company supporting a diverse portfolio of clients to adopt the latest robotics and automation advancements.
- A full UK driving license and be happy to travel to client sites as and when required.
- Fork lift truck license desirable but not essential.

We are an equal opportunities employer and welcome applications from all suitably qualified individuals.

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