



**CNC ROBOTICS LTD**  
MANUFACTURING EVOLUTION

Title: Mechanical Design Engineer  
Reports to: Mechanical Design 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 Mechanical Design Engineer will have strong design skills. Working on client projects to design, develop and maintain robotic systems and associated hardware. The Mechanical Design Engineer will work on multiple projects at any given time and be comfortable working in the workshop and on client sites as well as within the design office.

### **Core Responsibilities**

- Produce designs and associated drawings using Solidworks taking into account design for manufacture. Ensuring the aesthetics, materials and functionality of components are considered.
- Conduct feasibility studies and or generate concepts and simulations using software such as KUKA Sim.
- Work as part of a team to define client requirements and estimate material, construction, and project timescales.
- Procure mechanical elements in accordance with standards, policies and procedures in line with Project Plan and work as part of a team to ensure stock levels of consumable items are maintained.
- Understand and identify machine hazards designing the mechanical parts to ensure operator safety and generate compliance calculations as required.
- Work as part of a team to carry out Machine Risk Assessments and ensure projects meet construction safety regulations.
- Take a hands approach to ensure projects are completed, including supporting build and integration activities. Undertake model making, prototyping and product testing as required.
- Provide mechanical input into relevant documents such as trials, factory acceptance tests, site acceptance tests and O&M manuals as required
- Own and be aware of Project Plan milestones ensuring the Mechanical Design element meets or exceeds planned deadline dates
- Perform mechanical tasks such as assembly of parts to required quality and safety standards in the workshop and on client sites as and when required.
- Ensure all duties adhere to CNCR policies, procedures, industry best practise and regulations and relevant ISO standards such as ISO9001 and ISO14001.

**CNC Robotics Ltd.**  
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0151 523 8009 | [info@cncrobotics.co.uk](mailto:info@cncrobotics.co.uk)

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## **Education and Training**

- Degree Qualified person in Mechanical Design/ Engineering/Robotics
- Experience of developing concepts and designing complex electro mechanical machinery including robotics.
- Experience using SOLIDWORKS Mechanical (Essential) [3D Modelling, Drawings & Analysis], SOLIDWORKS PDM (Desirable), KUKA SIM (Desirable)
- Experience of Producing manufacturing and assembly drawings inline with relevant drawings standards e.g. BS 8888
- Familiarity with Pneumatic circuit diagrams and componentary
- Knowledge of all pertinent Standards for compliance with the Machinery Directive and CE Marking requirements from a Mechanical Design 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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