



# Mark Roberts Motion Control

## Electronic Engineer / Draughtsperson

Location	Blindley Heath, Surrey, RH7 6JP
Reporting To	Electronics Design Manager
Contract Type	Permanent, Full Time
Salary	Depending on Experience

### THE ROLE

Mark Roberts Motion Control products involve the integration of camera systems with robotics platforms including the control and synchronisation of electric motors, interfacing with third party camera, motion sensors/detectors, analogue amplifiers and GPIO/sensor interfacing.

As an experienced **Electronic Engineer/Draughtsperson** you will work closely with our in-house electrical, electronic and mechanical developers to assist with the design process and to prepare professional, manufacturable, electrical documentation to recognised industry standards in the form of electrical schematics, electrical wiring diagrams, electrical enclosure layouts, electrical cable looms, electrical cable wiring assemblies in 3D and Bills of Materials. In-house developed solutions cater from one-off, high value, complex motion platforms through to high-volume, cost-sensitive application for mass markets where performance, reliability and costs are key development drivers.

You will have great communication skills and ably interface with the whole R&D team including software developers, mechanical engineers and product test specialists; in total, the development team is approximately 40 people. In time you will also have the opportunity to develop and produce Electrical designs.

### MAIN RESPONSIBILITIES AND TASKS

- Preparation of Electrical Design & Manufacturing Documentation to recognised international standards including Product Schematics, Cable Diagrams, Wiring Looms, Cable Routing & Bill of Materials.
- PCB design & layout, prototype and BoM preparation.
- Simple electrical design and documentation.

### SKILLS AND EXPERIENCE REQUIRED

Experience	<ul style="list-style-type: none"> <li>- Good Solidworks Electrical experience &amp; detailed Solidworks Electrical 3D capabilities, developed with extensive use of the design software on similar applications for highly integrated, complex, electro-mechanical assemblies.</li> <li>- Alternative CAD tools may be considered.</li> <li>- Electronic Engineering qualification and proven experience.</li> </ul>
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## Professional Skills

- Good working knowledge of Solidworks Electrical, Electrical 3D & Mechanical.
- Experience with Solidworks Product Data Management PDM (or similar).
- Experience in the design of products for CE and Global Certification.
- Understanding of design for EMC compliance.
- Experience creating solutions and designs of stepper and servo motor control circuits.

## ADVANTAGEOUS but not essential

- Design of mixed signal low power, low voltage, low noise sensor circuitry, design of embedded digital control circuitry and real-time microcontrollers.
- Recent Experience Installing/Deploying/Configuring Solidworks Product Data Management PDM (or similar).

## Personal Skills

- Excellent verbal and written communication skills
- Enthusiasm for learning with a “can-do” attitude
- Strong debugging and problem-solving skills

## THE COMPANY - MARK ROBERTS MOTION CONTROL

We are a robotics company doing some serious hardware and software engineering. By robots we mean 6+ axis robotic arms, large multi axis rigs and 2-3 Axis camera platforms. Our products are used globally in Broadcast studios, Stadiums, Movie Sets and Photography studios to capture motion and stills.

MRMC has been at the front of its field for over 50 years. Starting off as a family business, we are currently a medium sized business thriving and growing bigger every year. MRMC is a Nikon Group Company.

### WHAT WE OFFER

Our success is only possible because of the team effort from everyone and we recognise the individual input of each person throughout our design and manufacturing process at MRMC.

### Benefits:

- Flexitime
- Private Medical Insurance, for you and your family
- Dental, Optical and Audiological Cashback Plans, for you and your family
- Electric Car Lease Schemes
- Cycle to Work Scheme
- Workplace Nursery Scheme
- Discretionary Bonus Scheme
- Generous holiday entitlement
- Nikon staff discounts
- Training and Development Opportunities
- Ample parking

*If you apply online for a position with Mark Roberts Motion Control, we will use the information you provide to assist in the recruitment and selection process. Information provided on the application form and CV will be retained in all cases in electronic format cases and/or hard copy for as long as is required for the purposes of: the administration of your application, consideration for roles in the future, forming the basis of your employment records, if your application is successful, discharging any legal or regulatory requirements. Mark Roberts Motion Control will process your personal data in accordance with our Privacy Policy which can be found on our web-site. If you need more information on how long your data is kept for, which varies, depending on a stage of recruitment you've gone through, please contact us and we will provide relevant information. By submitting your application/CV online you are confirming you have read and accept the above and you are giving your consent to MRMC to process your personal and sensitive personal data for the purposes explained above.*