

MERCATOR ROBOTEC INDUSTRIAL AUTOMATION ENGINEER JOB OVERVIEW

KEY ROLES/RESPONSIBILITIES:

- Machine Vision System Designer**
- Industrial Programmer**
- Electrical System Design Engineer**
- Application Engineer**
- On-site Installation/Start-up Support**
- Project Management**
- Documentation**
- Other Responsibilities**

JOB DESCRIPTION:

Machine Vision System Designer:

1. Machine Vision Software Design – Datalogic, Cognex, DVT, Omron, Keyence
2. Specify optical components
3. Specify illumination system components
4. Specify image acquisition and processing hardware
5. Evaluate sample parts and write project feasibility assessments

Industrial Programmer:

1. PLC programming – AB, Omron, Mitsubishi, Modicon
2. Robot Programming – Fanuc, Motoman, ABB, Nachi
3. Motion Control Programming – Servo, Stepper, VFD
4. Proficient with various industrial communication protocols – Ethernet, Modbus, DeviceNET, etc.
5. HMI Programming
6. Visual Studio – VB, C, Java etc. for control, HMI and data collection

Electrical System Design Engineer:

1. Design electrical circuits for machine safety and control
2. Design electrical circuits and control panels that meet all electrical codes and safety standards.
3. Prepare professional electrical drawings in AutoCAD

Application Engineer:

1. Design and execute feasibility studies for new project proposals.
2. Work with Mercator Sales team and customer representatives to develop written project technical specifications and requirements

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3. Work with Mercator Sales team to develop project bill of materials, labour hour estimates and draft written quotations/proposals.

On-Site Installation/Start-up Support

1. Direct the activities of skilled trades
2. Test/Debug electrical wiring and communication networks
3. Install, setup, test and debug software
4. Monitor/support customer acceptance test procedures
5. Participate in daily/weekly progress meetings with customers – manage schedules and customer expectations.

Project Management:

1. Develop detailed project execution plans and schedules
2. Coordinate project schedules with customer representatives
3. Monitor budgets for purchased components, labour hours and travel expenses
4. Select vendors for purchased components, write purchase requisitions and monitor vendor delivery schedules.

Documentation:

1. Write project functional specifications, operator, maintenance and training manuals and any other technical documentation required

Other duties and responsibilities – as needed and required

Key Position Measurements:

1. Billable hour efficiency
2. Project Gross Profit
3. Projects completed on schedule
4. Customer satisfaction

This position will also require extensive and ongoing training and professional development in:

1. Professional certifications/designations – Certified Machine Vision Professional, P.Eng., C.E.T, etc.
2. Industrial Control System design standards and techniques
3. Third party hardware platforms – robots, machine vision systems, motion control
4. Time (self) management, organization and execution
5. Regularly setting **SMART** goals and achieving desired results

Important Personal Traits for this position:

1. Small company “mentality” – everybody has to pitch in and do what needs to be done to serve the customer’s needs.
2. Goal oriented. Thrives on accomplishment and personal/professional development.
3. Flexible with work schedules
4. Creative, ambitious and willing to learn

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5. Able to effectively manage time in an environment of constant change and competing priorities.
6. Comfortable with new and constantly changing technology
7. Friendly, engaging personality that works well in a team environment

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