

JOB DESCRIPTION

Position Title: Machine Vision Developer
Department: Engineering

Job Status: Permanent, Full-time
Reports To: Senior MVD

Position Summary

Founded in 2003, Vista Solutions is an advanced engineering and technology company providing turnkey vision inspection products and solutions to a diverse client base across industries such as Automotive, Pharmaceutical, Food and Beverage, Consumer Products, and Metal Casting.

The Machine Vision Developer "MVD" is responsible for integrating and supporting advanced machine vision and inspection technologies and solutions for a wide array of automated inspection applications. This position is focused on development of challenging machine vision solutions, including robot guidance, quality inspections, gaging, and traceability for remote clients based primarily in the USA. The remote developer must have exceptional communication skills to effectively collaborate with project management, engineering, sales, and development partners.

Regular Duties and Responsibilities

Under the supervision of the Senior MVD, the duties, and responsibilities of the MVD include, but are not limited to:

- Graphical User Interface development using C# with MS Visual Studio, including custom GUI development, and maintenance of existing Vista GUI framework
- Machine vision inspection development using MVTec Halcon (including Deep Learning tools such as AI)
- Development of complex machine vision solutions, maintaining strong adherence to customer specifications and inspection requirements
- Image analysis on both 2D and 3D data using MVTec Halcon and other industrial machine vision packages
- Perform research and development tasks, including but not limited to development of novel inspection procedures and AI development
- Technical document writing to generate manuals, guidelines, and reports for programs and inspections
- Continuous improvement of Vista code base using C# with MS Visual Studio
- Support additional technical request from clients for peripheral product features
- Provide regular updates to all project stakeholders (internal and external)
- Technical service and support of custom machine vision solutions, including phone support, troubleshooting hardware / software issues and documenting results
- Troubleshoot and diagnose any problems with vision systems and communicate solutions for complex issues
- Potential onsite testing and support, including lab work and client facilities
- Demos and trade shows throughout the USA may be required from time to time
- Other duties as assigned

Minimum Requirements

- Mechatronic, Electrical, Computer or other related technical degree with a keen interest and/or prior experience in machine vision, automation, robotics, and programming
- Knowledge of automated processes including PLC, electronics, robot programming is an asset
- One (1) - two (2) years' experience of assisting in programming vision equipment is an asset
- Exceptional work ethic, math, and analytical skills to solve complex problems independently is required
- Strong communication skills in English and Spanish (written and verbal, technical and non-technical)
- Desire to be challenged by expanding, applying, and learning new technologies
- A valid passport and ability to meet the requirements of a TN Visa (USA working Visa)
- A valid driver's license and/or reliable means of transportation

Regular Working Conditions

- Vista Solutions follows a regular business schedule tailored to clients' needs (i.e., 7:00am to 4:30pm); this position may be required to work in the evenings, outside normal working hours, or on weekends. Flexibility in hours of work may be required to provide remote support of various activities occurring in the field or during demonstrations
- Ability to work independently from Vista Solutions Mexico offices. This is not a work from home position
- Ability to multi-task in a fast-paced environment (i.e., customer calls, meetings, support, changing priorities etc.)
- Required to spend long hours concentrating which will require attention to detail and high levels of accuracy
- Required to meet several deadlines in a fast-paced environment