

Job Title: Automation Engineering Project Manager (AEPM). II

About us

KTM Research is a small automation services company that builds custom systems, tools, and machines. Our focus is on machine vision, vision-guided robotics, and advanced technologies for manufacturing, production, and R&D. We serve a range of industries, including consumer electronics, research laboratories, aerospace, semiconductor, and apparel. Our clients range from small local companies, to research institutions and international companies.

KTM Research approaches business a little differently than other system integrators. At KTM Research we believe in under-selling and over-delivering. While this is the opposite of many in the industry, it has given us a unique advantage with our clients, who have come to trust and rely on us. Our expertise in high-resolution vision systems and analytics, and our unique perspective and ambition has allowed KTM to stand out from the competition.

Position Overview

AEPMs are responsible for working with minimal oversight while managing a small project team to achieve successful completion of projects. This includes ensuring the quality of work, delivery schedule, budget, and customer satisfaction. In addition to managing, AEPMs are also expected to be active technical contributors on the project team. This is a fast-paced, diverse position with a wide range of responsibilities and discretion within the company.

Position Responsibilities

The position responsibilities for this position fall into two main categories: those related to project management, and those related to vision software design and development. The position will supervise up to seven (7) subordinate employees including design engineers, automation engineers, electrical engineers, controls engineers, and interns.

Project/Team Management (55% of the time):

- Act as the liaison between KTM Research and customers throughout automation engineering projects.
- Build and maintain strong client relationships by understanding their needs to establish quality and reliability objectives of finished products.
- Collaborate with engineers with different industrial backgrounds to ensure quality control and reliability of our products.
- Research and validate new automation technology and apply them on industrial system development.
- Lead engineering teams of design engineers, automation engineers, electrical engineers, controls engineers, and interns in initial automation system conceptual development to address and resolve production problems, maximize product reliability, and minimize costs.
- Supervise and participate in the development, test, and evaluation of automation system and develop corrective action plans as necessary.
- Reverse engineer automation system for system integration and expansion.
- Develop, review, and maintain project documentation as required by the customer specifications to ensure currency of designs and documentation of any production and manufacturing problems.

Vision Software Design/Development (45% of the time):

- Develop standard and procedures for software design projects including manufacturing processes, labor utilization, and production standards and supervise through the development cycle.
- Implement and maintain software for complex machine vision tasks.
- Apply machine learning technology on vision inspection.
- Design and implement program for vision guided robotic application.
- Implement and manage programmable logic controller (PLC) programs.
- Manage software and user interface design projects which use C# and other programming software.
- Implement control software for AGV (automated guided vehicles) testing and task management.
- Develop serial and ethernet communication software for industrial devices testing.

Position Requirements

- Master's degree in mechanical engineering.
- 3 years' working experience with machine vision and vision-guided robotic program development and industrial automation and controls.
- Highly skilled with machine learning and deep learning applications, 3D vision.
- Proficient in programming languages including C# and robotic control software including WINCAPS and RT Toolbox.
- Ability to work independently with minimum supervision and lead multiple projects simultaneously involving various engineers and customers.

Apply to KTM Research LLC c/o David Mandrell, 3078 Schmidt Lane NE., Hubbard, OR 97032.