



Southwestern Industries, Inc.

Senior Software Engineer

Job Description

Company

SWI is a manufacturer in the field of metalworking machinery. Our main product is a specialized computer that controls machine motion. The main office is in Rancho Dominguez, CA just south of Los Angeles off the 91 and 710 freeways. We have customers all over North America and a wholly owned subsidiary in the UK. For more information about the company, see our website at www.southwesternindustries.com.

Job Overview

Software Leadership, Design and Architect – Create software architecture or structure for future products. Develop and document the plan for how various pieces of software should fit together. Design protocol for communication between these pieces. Provide leadership to a team of software engineers.

Develop code – Create UI's, create tool paths algorithms for machining cycles, implement various CNC features

Code Maintenance - Sustain existing code to address bugs and add enhancements

Problem Solver – Help identify weaknesses in our software architecture and propose solutions to increase stability of software. Develop automated regression testing scheme to help test our software. Create software tools to help troubleshoot problems with software when running the CNC machine.

Qualifications

- BS or MS in EE, ME or computer science
- 10+ years of experience programming with C and C++ languages
- Familiarity with Windows XP and CE
- Experience with CAD/CAM and various file formats like DXF and 3D models is a plus
- Create PLC programs to run various aspects of CNC machine
- Good communication skills in order to interact with managers and other engineers
- Ability to manage and drive projects and work in a team environment
- Experience in our industry is a plus

About the Product

Southwestern Industries is a mfg. of CNC machines and controls. The control is a PC based control used on mills and lathes. The software portion of the control was developed entirely by Southwestern Industries. The user interface software is a Windows-based application that uses a conversational style of programming with 3D graphics and is written in C++. The motion control software is written in assembly language and C.

Benefits

We have a competitive compensation package and benefit program that includes health, life, and disability insurance, vacation, vacation bonus and a 401K retirement plan.