



VISION ENGINEERING SOLUTIONS

SENIOR SOFTWARE ENGINEER

DESCRIPTION

Responsible for overall software product architecture, as well as the design and development of algorithms, user interfaces, network interfaces, and databases. Applies the principles of software engineering to research, design, and develop software products. Work may also involve planning and supervising of software testing, software documentation, and field testing of developed applications.

Reports to the CEO.

TASKS

- Technical contributor with demonstrated design skills; is assigned difficult technical problems within/outside domain of expertise.
- Develop detailed task list for software product design given product performance requirements
- Design new software applications and modify legacy software applications
- Develop algorithms and new functionality to enhance existing products.
- Develop software product testing procedures
- Perform software product testing
- Analyze product testing data for performance/compliance evaluation
- Troubleshoot/debug new and legacy software applications

- Develop documentation for new and legacy software applications
- Review and approve software documentation
- Follow best practices for writing and documenting software code
- Generate labor estimates for proposals.
- Work effectively with minimal supervision
- Contribute to continuous process improvement
- Actively support team members, the team efforts, and the company culture

REQUIRED EDUCATION, KNOWLEDGE, SKILLS, & ABILITIES:

- U.S. Citizen
- Active DoD Secret security clearance
- BS degree in Computer Science, Computer Engineering, or Electrical Engineering
- 10+ years demonstrated results in software engineering
- 5 years experience in C/C++ language (must be within last 7 years)
- Expertise with C++ STL
- Demonstrated pattern of continuous learning.
- Code diagnosis (logic and reasoning about how/why things are or aren't working)
- 5 years experience with Linux operating systems
- Direct experience using OpenGL/Shaders
- Direct experience performing image processing with OpenCV

DESIRED EDUCATION, KNOWLEDGE, SKILLS, & ABILITIES

- Advanced degree in Computer Science, Computer Engineering, or Electrical Engineering
- Effectively communicates technical ideas to non-technical personnel
- Requirements gathering (customer interfacing)
- Requirements definition (covering use cases, testability, feasibility)
- Experience with the Linux Real-Time kernel
- Direct experience with data analysis tools, e.g., MatLab, Python, etc.

- Project management experience
- Experience with ISO 9001:2015
- Expertise in MS Windows

