



Direct Hire Group

Candidate #51806

Senior Software Engineer: Northwestern Minneapolis Suburbs

OBJECTIVE: Seeking a challenge position of Software Engineer.

SUMMARY: Both **MS** in Computer Science and Physics. **BS** in Electric Engineering. Ten (10+) plus years of software engineering and application programming experiences and five (5) years of electric engineering experience in semi-conduct industry, medical device industry and academic Institute.

- Computer Skills and Programming Language: Visual Studio.NET, Visual C#, VB.NET, ADO.NET, C/C++, Visual C++, MFC/ATL, Win32 API, COM/ActiveX, DirectX, SQL Server, WinSock and TCP/IP in Windows platform.
- Knowledgeable in Software Engineering and Architecture.
- Software, firmware, and hardware analysis, design, debug, and testing.
- SQL server database (DTS, Reporting services, data mining/warehouse).
- Programming experience in machine vision software: Cognex CVL, Cognex VisionPro, Cognex In-Sight Sensor, DVT SmartSensor, Matrox's MIL library and Inspector.
- Software design tools: OOA&D and UML, Microsoft Visio, IBM Rational Rose (XDE).
- Project Management Tool: Microsoft Project, Visual SourceSafe.

WORK EXPERIENCE

Feb. 2005 – Jan, 2008: ABC Company

Sr. Software Engineer

Key responsibilities and hands-on experiences include:

- Technical leader in the projects of **Bifurcation Inspection Stations, Adapt Stent Pre-Roll Station and Weld Inspection and Matte Finished Length Measurement System**. Responsible for system component selection, including camera, Lens, lighting and its controller and vision library. Also responsible for vision inspection software engineering, programming and documentation with OOA&D (UML) methodology and VB.NET, Visual C#, Cognex VisionPro and SQL server database.
- Project leader on **Braider CAPA** project. Responsible for project plan, budget, resource allocate, scheduling and also responsible for vision inspection system selection, software engineering and programming, testing & debugging, application integration.
- Designed and developed the application of droplet measurement for Microfab test station and Stent Drug Coating using VB.NET and VisionPro 4.0.
- Provided technical support for LabCoat system which is used to Stent Drug coating in Visual C++ environment.

Nov. 2004 – Jan, 2005: DEF Company

Sr. Software Application Engineer

- Implemented system setup procedure for Flex SN500 Circuit Board Inspection/Measurement system. Included computer system setup, KS software installation, system camera alignment and calibration, stitch test, and soak test.

July 1997 – Nov. 2004: GHI Company

Sr. Software Engineer (Jan. 1999 – Dec. 2004)

Key responsibilities and hands-on experiences include:

- Technical leader in software engineering and development for **TVS, cTVS, GSAAM** automated vision inspection systems. Completed system specification, architecture design, code (VC++, DirectX, VC#, Cognex CVL) development and testing/debugging, and documentation. Implemented SDLC (Software Development Life Cycle) for these systems.
- Worked on the projects of **edTVS Audit system** and **VFT** – Vision Feedback Tool. Responsible for GUI design in VC#, SQL Server database design, data COM design and development in .NET VC#, VC++, implemented COM and .NET interoperability to the whole system.
- Worked on the project of **TICE** (Trace Inspection Capacity Enhancements). Applied latest technology of VI (Virtual Interface) architecture and Gigabit network adapter to the Machine Vision system. Responsible for designing the cluster system using client/server modal and TCP/IP protocol, coding, testing and debugging the communication software using RPC (Remote Procedure Call) and MS VC++ 6.0. This project successfully doubled the inspection capacity of **TVS** and **cTVS** system and made a significant contribution to the company's cost reduction and profit making.

Software Engineer (July 1997 – Dec. 1998)

- Design team member of the project of Trace Color Vision Inspection System. Responsible for designing and developing the GUI (Graphical User Interface), motion controller of X-Y table, lighting controller using MS VC++, MFC/ATL and Win32 API and RS-232/RS-485 communication port. Integrated vision inspection software using multithreads, synchronization tools and serial communication port.
- Team member of the project of Etched Defect Vision Inspection System. Responsible for designing and developing GUI using MS VC++ 5.0, MFC. Modified and maintained the existing controls software (PLC) for the Vision Module and Etched Defect Vision System in the manufactory.

March 1996 – June 1997: JKL Company

Research Assistant

- Set up an NT Intranet / Internet Networking system and built up a Web site. Developed web pages, CGI files for accessing ODBC Data Source (MS Access database and Oracle database) in Internet.
- Worked on the project of X.500 Interface / X500 Business Cards. Developed web pages and CGI files for accessing X.500 database using HTML, C and Perl for NASA.

EDUCATION

MS in Computer Science, University of ABC

MS in Physics, DEF State University

BS in Electric Engineering at GHI University

TECHNICAL TRAINING

- OOAD in UML by Benchmark, 3/2003
- Microsoft Certified training on Programming in MS SQL Server 2000 Database by Benchmark, 1/2003
- Advanced Java Programming, JDBC, Java Bean, Serverlet, JSP training by Computer Horizons Corp., 2/2001 – 3/2001
- COM/DCOM, OOD&OOP in Java by Object Discover Corp., 8/2000
- SDK/CVL training by Cognex, 8/1999

INNOVATION AWARD

- Certificate Award from CTO, 2002