

Andrew Szczepanski

Senior Computer/Software Engineer - OTIS ELEVATOR CO

New Britain, CT - Email me on Indeed: [indeed.com/r/Andrew-Szczepanski/f10df0bb09ad282c](https://www.indeed.com/r/Andrew-Szczepanski/f10df0bb09ad282c)

Seeking software engineer lead position involving the management, development and/or verification of software systems.

Authorized to work in the US for any employer

WORK EXPERIENCE

Senior Computer/Software Engineer

OTIS ELEVATOR CO - Farmington, CT - August 2006 to Present

- Administrator of Application Lifecycle Management software testing tool for Engineering, including development of workflow and scripts
- Administrator of Serena Business Manager (SBM) for SW Change Control and Version Manager (VM) for Configuration Management.
- Administrator of Klocwork for Static Code analysis
- Used Klocwork Static Code Analysis tool to analyze sourcecode and presented report to development team
- Created a complete Standard of Work, Interface Application and batch scripts to ergonomically run Klocwork source code analysis with all compilers used by Engineering (ARM Keil, green Hills Multi, Microsoft Visual Studio for C, C++, and C#, Oracle Java, Synopsys Metaware, and Texas Instruments Eclipse C and C++)
- Provide training on Requirements (DOORS) and Static Code Analysis Tool (Klocwork)
- Supported Engineering Teams Worldwide with creation of Requirement Verification Matix (RVM), Software Test Procedures (STPr), and Software Test Results (STR) documents (United States, China, Germany, India, and Japan).
- Designated Trainer for all existing and new SW Engineers for United States for SW Otis (OSP) Change Control Process, SW Change Control Tool (SBM), Otis (OSP) Configuration Management Process, Configuration Management Tool (VM), Otis (OSP) SW Test Process, and SW Test Tool (HPQC).
- Proficient in using Atlassian Software Toolset (Confluence, JIRA, X-Ray, and Bitbucket).
- Focused on improving processes, tools and standard work via Kaizen and Relentless Root Cause
- Managed Software Configuration Numbers and Otis Software Library
- Reviewed software life cycle documents, such as Software Requirements Specification, Interface Control, Software Version Build and Software Test Procedure documents
- Lead Support of IBM DOORS for Requirements management

- Audited Software Change Requests with respect to Baseline Release Documents and Verification.
- Verify proper test coverage of requirements against test cases.
- Conducted Test Readiness reviews prior to formal verification
- Supported verification of Operational Control Subsystem (OCSS) and Compass Destination Entry Terminal
- Executed manual and automated test procedures using GCS Debugger and Compass Testing Application
- Developed automated test scripts for software and hardware verification
- Integrated proprietary verification software with Test Director
- Created VBA programs and macros for test documentation management and metrics gathering
- Customized and configured Compass Destination Entry Application Server using WebRCC application
- Subject matter expert knowledge of fixtures, server, group, cars, physical Service Tool, simulated Service Tool (Merlin), Automation Monitor (RISA), Automation Emulator (ERIOT), and creation and flashing of Otis Memory Units.
- Leveraged existing functionality of Version Control Tool to save \$150,000 in engineering budget. Incorporated further improvements for the tool after attending vendor training conference in Miami.
- ACE (Achieving Competitive Excellence) Associate, ACE Pilot, lead to raise engineering laboratories from Silver to Gold, identify and disposition escapes
- MFA (Market Feedback Analysis)
- Working on Elevator Cell Phone Application and supporting hardware to define Interface Control Document, Software Requirements Specification, Software Design Description, Software Test Procedures, Software Test Results, and Requirements Verification Matrix

Software Intern

MCGOWAN CONSULTING GROUP - Shelton, CT - May 2005 to August 2005

- Participated in Software Development Process in a MIL-STD-498 environment
- Developed design diagrams for Concept of Execution section of F-35 Joint Strike Fighter Primary Flight Control Software Design Document (SDD) for Hamilton Sundstrand
- Reverse-engineered software using Code Composer Studio
- Developed flow chart diagrams using Visio
- Participated in peer reviews of design diagrams with software engineers
- Performed Code Walkthroughs utilizing LDRA software analysis tool

- Developed Software Interface Design Document

COURSEWORK

- Algorithms and Complexity • Algorithms & Data Struct. • Computer Architecture • Computing
- Data Structures • Digital Logic • Discrete Mathematics • Ethics in Computing
- Fund. of Circuit Analysis • Introduction to Computing • Operating Systems • Program Language Translation
- Parallel Systems • Prob. Analysis of Comp. Systems • Senior Design Lab • Signals and Systems
- Software Engineering • Theory of Computation

EDUCATION

Masters in Computer and Systems Engineering

Rensselaer Polytechnic Institute - Hartford, CT

August 2010

Bachelor of Science in Software Engineering

University of Connecticut - Storrs, CT

August 2006

SKILLS

.NET (10+ years), ARM (10+ years), C# (10+ years), C++ (10+ years), DOCUMENTATION (10+ years)

ADDITIONAL INFORMATION

COMPUTER SKILLS

Programming Languages: ADA, C, C++, JAVA, Linux, MATLAB, MIPS, VBA

Applications: ARM Keil, Code Composer Studio, Dataman-Pro PG4UW, ERIOT, dataSIMS 16-bit and 32-bit, DOORS, Eclipse, GCS Debugger, GNU, IBM DOORS, Green Hills Multi, Klocwork, LDRA, Merlin, MS Office, Microsoft Visual Studio (for C, C++, and C#), Oracle Java, Pegasus, RISA, OMU Imager, Serena Business Manager (formerly PVCS Tracker), PVCS Version Manager, Application Lifecycle Management (formerly Quality Center/Test Director), Synopsys Metaware, Texas Instruments Eclipse (for C and C++), Visio, Mult-Edit

Hardware: Surestep Stepper Motors, TestResultsAndRVMGenerator, JIS board, ANSI board, Oscilloscope, Mult-Link probe, Signal Generator, Cell phones (iOS and Android)/wearables

SKILLS

- Experience in Software Engineering and Verification of Embedded, Real-Time Systems
- Software Requirements and Specifications: Review, Interpretation and Implementation
- Full Life Cycle Software Requirements Verification: Planning, Development of Manual/Automated Test Procedures/Scripts, Execution, Traceability, Defect Tracking, Problem Reporting

- Skilled in Software and Hardware Verification: Test Result Reproducibility, Exploratory Testing, Ad Hoc Testing, and Test Procedure/Results Documentation
- Clear and concise communicator with emphasis on thorough documentation and attention to detail
- Strong interpersonal and communication skills (Fluent in Polish)
- Process-Oriented with a Strong Focus on Efficiency and Multitasking