**J. KEVIN PEICK cell: (978) 857-9715**

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**Software Quality Verification, Validation and Lead Test Engineer** for medical device, telecommunications, and engineering applications, with particular expertise in analyzing, writing and executing both manual and automated test plans and procedures, including testing multi-lingual text/audio GUI requirements for embedded and non-embedded software. Writes and analyzes software test requirements, plans and procedures for testability, legibility, and traceability. Possesses a firm MIT mathematical foundation in statistical analysis, algorithm design, and software development/analysis practices.

**HARDWARE/SOFTWARE**:

• Windows 7 & 10, Macintosh, Unisys, Honeywell and VAX/VMS mainframe JCL.

• UNIX/Linux, Python, UNIX Shell Scripting, JavaScript, Selenium, LabView, QMS, Teamforge, HP Quality

Center (QC) , Microsoft TFS, Rally, MATLAB, HTML/DHTML, Java, C/C++, Visual Basic GUI, Oracle,

MS SQL Server, MySQL, FORTRAN, R, and M.

**EDUCATION:**

**Massachusetts Institute of Technology** B.S. Applied Mathematics

**Northeastern University** Graduate-Level Courses in CS & EE

**Chubb Computer Services, Waltham** Top Gun Client/Server Program

**N. Essex Community College, Haverhill** Web Page Design & Development

**FDA KNOWLEDGE AND EXPERIENCE**: ISO 13485, IEC 62304, 21 CFR Part 11, 21 CFR Part 820, ISO 9001,

ISO 10993, ISO 14969, ISO 14971, ISO 24971, IEC 62355-1, FDA cGMPs, and HIPAA.

**EXPERIENCE:**

**9/17-11/17** ST. JUDE MEDICAL/ABBOTT LABORATORIES, Westford, MA

**SOFTWARE QUALITY ASSURANCE ENGINEER**

Working with a shelved medical device and its software, revived and analyzed the system’s archival

documentation to determine the state of software testability from an incomplete set of Software

Requirements Specifications and software design documents. Began planning activities for a resumption of

software verification, validation, and regression testing. Exercised the software on a daily basis to

become sufficiently familiar with its operation to prepare and present a successful demonstration of the

system’s operation and capabilities for the R&D engineering staff.

**10/16-3/17** ANALOG DEVICES, INC., Wilmington, MA

**SOFTWARE QA ENGINEER**

Performed all Software Quality duties for the Graphical User Interface (GUI) of an engineering evaluation

system, a platform that hosted embedded software using Time-of-Flight data from reflected laser pulses to

produce a real-time video image, with color representing distance. As the sole SQA Manager/Engineer:

• Performed daily manual testing (GUI and performance validation) of the software/hardware system,

• Designed, created, and implemented a Software Quality process (using QMS Concepts) for the project.

• Produced extensive documentation where there was no prior documentation, including the Software

Requirements Specification, all Software Test Procedure documents, Validation Plans, Agile-style User

Stories, and a User’s Manual for system operation and system calibration.

• Established guidelines and advocated proper bug-reporting standards for defect replication and resolution

• Implemented a framework for Configuration Management of the software releases, development

code versions, peer code/test reviews, release preparation, and new feature proposals /implementation, and

• Conducted a weekly SQA Status Report Meeting, attended by all team members and managers.

**J. KEVIN PEICK Page 2 (978) 857-9715**

**8/15-1/16** ZOLL MEDICAL, Chelmsford, MA

**SENIOR SOFTWARE DESIGN QUALITY ASSURANCE ENGINEER**

Performed the analysis, writing and execution of manual and automated multi-lingual GUI and performance test plans and procedures (by modifying and producing Python automated test scripts), performed regression and DB testing, and reported test metrics and status reports for the release under test. As an integral team member, applied expertise daily to analyze software test requirements, validation plans and procedures for security, and traceability. Assembled the test equipment suite (simulators of ECG waveforms, Blood Pressure levels, Respiration activity, SpO2 and CO2 measurements) to perform hands-on testing of Zoll Medical’s X-Series Defibrillator software, participated in the calibration of equipment, and composed a comprehensive report of the test results and validation output data tables. Used a firm MIT mathematical foundation in statistical analysis, algorithms, and software development practices to utilize SDLC tools, including bug reporting and tracking, code repository control, and requirements management and maintenance.

**12/13-2/14** BOSTON SCIENTIFIC CORPORATION, (formerly BARD Electrophysiology), Lowell, MA

**SENIOR SOFTWARE QUALITY ASSURANCE ENGINEER**

Performed Software Quality testing and Computer System Validation (CSV) of a clinical cardiac system

for the monitoring, management, analysis, and worldwide sharing of electrophysiological procedures,

diagnoses, and pharmaceutical dosages. Employed QMS rules and guidelines. Using Linux, supported

development by developing validation plans, executing performance test cases, analyzing test results,

defects, and tracking bugs using HP Quality Center (QC). Worked with a development team in India to

ensure that tests and defect repair were thorough in addressing validation plans and requirements. Performed

testing of enterprise and SAAS applications using industry-standard signal generators and patient simulators.

**7/13 – 11/13** TELEFLEX MEDICAL Inc., Everett, MA

**SOFTWARE VERIFICATION AND VALIDATION ENGINEER**

Performed Software Quality functions for the testing of the embedded software operating within a medical

device. Developed validation plans and procedures for V&V of the software performance (load, security, GUI,

and database testing) of the AutoCAT3 WAVE Intra-Aortic Balloon Pump System, using IBM Rational DOORS

in a UNIX/Linux environment, VMWare virtual Environment, QMS, LabView, and the METATAB statistical

package. Developed software validation plans and procedures to test the perfomance and scalability of

software of unknown provenance (SOUP).

**1/13 – 3/13** FOLIAGE SOFTWARE, Burlington, MA

**SENIOR SOFTWARE QUALITY ENGINEER**

Performed Software Quality functions for the testing of the embedded software within a medical device.

In a Unix/Linux environment, developed test plans and procedures to validate, verify, and analyze the software

algorithms which drive the normal operations and alarm management of the medical device. Reviewed User

Needs/Stories and Requirements documents for correctness and testability, and using a traceability matrix

determined and tracked relationships between user needs and test specifications. Participated in QMS

implementation and usage. Investigated the use of Bayesian statistical methods to perform risk assessment.

**5/12 – 9/12** ENERPATH, INC., Cambridge, MA

**SOFTWARE QUALITY ASSURANCE ENGINEER**

As the sole SQA project engineer, performed all Software Quality functions for an Energy Efficiency firm.

In an Agile environment, used Rally to wrtte verification and validation plans, specifications, user needs and

stories, and test procedures for an iPad application. Tested the iPad application as an electronic clipboard by

separately assuming the role of agent, customer, contractor, and administrator. Carried out iPad GUI regression

and exploratory testing in an Agile/Scrum environment by performing bug reporting, defect tracking, and

configuration management with Microsoft TFS. Wrote SQL queries for back-end data validation. Through

diligence and SQA Best Practices achieved the successful release of the web server-based iPad software release.

**J. KEVIN PEICK Page 3 (978) 857-9715**

**11/11 - 4/12** INNERSCOPE RESEARCH, Boston, MA

**R&D SOFTWARE QUALITY ENGINEER**

As the sole SQA Engineer, performed all Software Quality functions for a Marketing Research firm, including

security, GUI, performance, and scalability testing. Wrote software test specifications, plans, and procedures.

Performed software (C#, XML, .NET) testing and defect tracking. Authored a software training manual. Wrote

Java code for data creation. In a Unix/Linux environment, by using SQL DB testing and Python scripts,

validated biometric measurements to analyze emotional responses to audio-visual materials. Achieved the

successful first release of a key product (Sensus), with no bugs reported for 6 weeks after its deployment.

Converted the manual software test suite into a format usable by non-technical agents.

**5/09 - 7/09** GEX, INC., Atkinson, NH

**SOFTWARE QUALITY ASSURANCE ENGINEER**

Performed manual software testing and independent validation. Solved and corrected math problems for

the publishing of electronic textbooks in college-level Differential and Integral Calculus.

**7/02 - 10/16** LAW OFFICE OF HARRIET R. PEICK (spouse), Haverhill, MA

**BUSINESS/SOFTWARE CONSULTANT**

Performed all essential business/software functions for a private legal practice, including software

installations/maintenance, and clerical and organizational tasks using MS Office suite.

**11/99-7/02** LUCENT TECHNOLOGIES/BELL LABORATORIES, North Andover, MA

**SOFTWARE QUALITY ENGINEER for OPERATIONS INTERWORKING**

Validated and tested (performance/load) tested fiber optics embedded network telecommunications software

(Java, C/C++ in a UNIX environment. Wrote and performed required test plans and specifications. Tracked

defects. Wrote UNIX, C Shell, JavaScript, and Perl scripts for automated testing. Programmed in Java for

software test scenarios.

**11/96-10/98** RAYTHEON SYSTEMS CORPORATION, Bedford, MA

**SENIOR SYSTEMS DEVELOPMENT ENGINEER**

Performed system upgrades and program enhancements to a software simulation of a ground-based

radar system. Developed algorithms and implemented modifications for digital signal processing of

radar waveforms using MATLAB for graphical presentations. Executed simulation scenarios to test

and assess radar system performance. Conducted and presented written and verbal reports of

comparisons between several large-scale radar simulation programs. Developed applications in

C/C++ and MATLAB to test and verify the radar simulations.