DANNY LENTS

San Antonio, TX 78253

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SUMMARY

Strong and diversified Computer Engineer with extensive technical and management experience that includes years of academic and practical job experience related to software development. Experience covers a broad range of projects from industrial and commercial products to space flight and military applications. Software development experience in embedded, desktop, and web applications. Active Secret security clearance.

AREAS OF EXPERIENCE

- Software Development
- Project Promotion
- C/C++
- HTML
- XSLT
- MySQL
- Software Security
- Software Development Life Cycle
- C#
- PHP
- Flash
- Linux, Windows, VxWorks
- Project Management
- Web Development
- XML
- Visual Basic
- Javascript
- CORBA

SIGNIFICANT ACCOMPLISHMENTS

- Wrote firmware for the command and telemetry board on the Deep Impact space mission that successfully impacted comet 9P/Tempel in 2005. My code on the flyby spacecraft is still running today – no memory leaks in that code.
- Successfully transitioned between projects with vastly different technologies and domains.
- Co-authored the Field Calibration Interface Standard (FCINTF).
- Established a national presence in raising awareness about identity theft and looking for technology solutions to deter, detect, and prosecute identity thieves.

PROFESSIONAL EXPERIENCE

BLUE CANYON SOFTWARE CONSULTING Inc. , San Antonio, TX **2009 - present**

Started Blue Canyon Software Consulting Inc., a disabled veteran-owned small business (DVOSB), to work as an independent software engineer. Please visit www.bluecanyonsoftware.com.

SOUTHWEST RESEARCH INSTITUTE (SwRI), San Antonio, TX **1996 – 2009**

Senior Research Engineer 2000 – 2009

Research Analyst 1996 – 2000

- Worked on a wide variety of highly complex software development projects across multiple groups at the Institute. Experience in project management, supervision, business promotion, and software development. Worked in all phases of the Software Development Life Cycle. Worked in a department for the past two years assessed at CMMI level 5. Very comfortable with client interaction.
- Developed firmware in C on VxWorks operating system for the command and telemetry board on the Deep Impact space mission to impact a comet. Wrote Windows application in C++ to perform test and validation of the spacecraft control unit via instrumentation control over a General Purpose Interface Bus (GPIB).
- Promoted business opportunities to help law enforcement exchange and process data.
- Established relationships at Attorneys General Offices in Utah, Arizona, and Maine, the Federal Trade Commission, the Department of Justice, South Texas ID Theft Task Force headed by the Secret Service, and others.
- Led Enterprise Security Technologies Group (ESTG) for past 16 months. Managed a six-person team to research areas to improve the security of software development for our department. Submitted and defended process changes that introduced security to our software development life cycle.
- Led team of three engineers to verify performance requirements were met on a multiple-tier J2EE service oriented architecture (SOA) application.
- Developed software in C# to convert XML data collected from ambulance health monitors to meet the requirements of a U.S. Army XML schema. Software provided granular control of data collection and output via a graphical user interface.

SOUTHWEST RESEARCH INSTITUTE (continued)

- Managed and completed SwRI internal research project that examined visualization of data collected to detect patterns in crime data related to identity theft. Wrote article for SwRI Technology Today magazine that is currently under review.
- Developed software for a commercial aircraft project that included data collection and processing using XML and the Simple Network Management Protocol (SNMP). Used C++ to control on-board recorder and provide graphical user interfaces using wxWidgets.
- Developed web-based application that supports intelligent transportation system for large city that included data exchange between the user-interface and the database using XML. Converted database responses from XML to HTML using XSLT and PHP.
- Developed software for three large SwRI Signal Exploitation & Geolocation Division projects. Projects written in C++ using CORBA to process high volumes of radio signals using distributed software components.
- Developed calibration management application in C++ using MFC. Software provided means to interact with connected calibrators to create, download, manage test procedures and to collect and process calibration results.
- Co-author of the Field Calibrator Interface (FCINTF) standard which is used by several manufacturers to provide interface between calibration management software applications and field calibrators.
- Project manager and developer for six FCINTF driver projects -- C++ and Component Object Model (COM). Each project had budget of approximately $40,000.
- Developed firmware on a Motorola 68HC11 microcontroller to create a Highway Addressable Remote Transducer (HART) interface for a calibrator used in the process control industry.

GALACTIC TECHNOLOGIES, San Antonio, TX **1995 – 1996**

Software Engineer 1995 – 1996

Developed software in C and C/ATLAS to control instrumentation for the Depot Automated Test System for Avionics (DATSA) system.

- Project manager of 3-person team for DATSA project. Responsible for budget, software/hardware development, and reporting.
- Wrote C/ATLAS program to provide automated fault diagnosis and repair of a Ground Speed / True Air Speed Indicator.
- Developed an application in C to analyze automated test procedures. Software evaluated DATSA test equipment capability usage to identify candidates for less expensive instrument replacements.

OTHER RELEVANT EXPERIENCE

U.S. ARMY

Calibration Warrant Officer

Test Equipment Calibration and Repair

- Managed and led 7-person calibration teams to 22-person calibration laboratory.
- Managed calibration labs in peacetime and combat environments.
- Developed software to replace a manual system of determining calibration due dates. Saved the Army approximately $10,000 per year.
- Earned Federal Communications Commission General Radiotelephone License.
- Distinguished honor graduate in Warrant Officer Course.
- Experience in wide range of instrumentation technologies to include DC & low frequency, microwave, and ionizing radiation.
- Honor graduate in every military electronics course attended.

EDUCATION

MS, Computer Engineering, Saint Mary's University, San Antonio, TX (GPA 4.0/4.0)

BS, Computer Science, University of Maryland, European Division, Germany (GPA 3.7/4.0)

AA, Management Studies, University of Maryland, European Division

Member IEEE Computer Society