**Luigi Labella**

Result-driven IT professional with experience in developing software solutions in the airline industry for support of business objectives and in the implementation of meteorological applications critical to Air Traffic Control Centers. Experience in all stages of system development efforts, including requirement gathering, design, architecture, coding, testing, deployment, installation, and support.

**AREAS OF EXPERTISE:**

Software Development

Airline Industry

Meteorology

Relational Databases  
Unix/Linux System Administration

Technical Specification Development

Data Integrity

**Technical Proficiencies:**  
Platforms:

Unix, Solaris, Linux, Windows XP/Vista/7, IBM Mainframe VMS/TSO, Embedded Systems.

Languages: C, C++, Motif, FORTRAN, JAVA, SQL, Shell Scripting (Perl, Awk, Sed).

Tools: Builder Accessory, Eclipse, Microsoft Office Suite Tools, Subversion, ClearCase, gdb, purify.

PROFESSIONAL EXPERIENCE:

**Senior** **Software Engineer -** 2007 to 2012

UNITED AIRLINES, ENTERPRISE OPTIMIZATION, CHICAGO, ILLINOIS

Contracted to develop graphical user interfaces, creation of tables and data extraction functions to enhance and maintain existing applications for fleeting and profitability tools using motif/C/C++/java/SQL that were transitioning operating systems and hardware platforms.

Consolidate multiple tools into one main fleeting tool. Provide expertise in transitioning from legacy systems to new vendor provided applications. Designed and implemented changes to existing tables and new tables in the Oracle database. Ensured data integrity was maintained during upgrades. Created data extraction routines using pro-C. Modified client and server software written in motif/C/C++/Java. Wrote bourne, k-shell and SQL scripts to automate testing of releases and modifying database tables. Responsible for testing and moving multiple releases to production systems. Automated loading of large amounts of data to database by writing SQL scripts. Created scripts that would invoke Java APIs to create ad hoc reports or load data into database. Maintained batch scripts. Troubleshoot and resolve issues arising from hardware and OS upgrades. Used Unix/Linux knowledge to trouble shoot system performance issues and application faults and errors. Maintained code changes using SVN and ensured other developers changes where correctly merged. Developed code using Eclipse.

**Senior Software Analyst -** 1999 to 2007

UNITED AIRLINES, Research and Development, CHICAGO, ILLINOIS

Hired to oversee and take responsibility of the code base for airline scheduling editor software. Acted as interface between vendor and United in the process of taking over code base (motif/C/C++/SQL) from Sabre. Performed maintenance, customizations and enhancements to system and developed interfaces with existing in house optimization tools and other departments reporting and dissemination tools. Provided expertise to help decommission obsolete mainframe systems by providing new feeds from latest applications. Provided support troubleshooting with efficient resolution of issues with great customer satisfaction. Maintained and enhanced on-line and batch programs. Provided users with database support resolving any data integrity issues that arose as part of porting system from the legacy mainframe system to the new Unix system. Provided Unix support and expertise to Optimization team. Wrote scripts to monitor performance and help detect system issues. Gathered requirements for enhancements to business products, reports and data feed. Designed, implemented, tested and moved to production enhancements and new functionality for the schedule editor and associated data feeds.

Created batch scripts that invoked SQL scripts or stored procedures to create reports to be displayed by browsers. Maintained code using Clearcase software managment tool.

**Software Analyst –** 1999

FEDERAL EXPRESS, ORLANDO, FLORIDA

Contract to design oracle functions to be used by accounting department. Analyzed requirements and designed stored procedures in Oracle database.

**Software Tester –** 1998

Motorola, Chandler Arizona

Contract to develop and run test procedures for Iridium Satellite system prior to official release. Part of team that had develop test procedures to run 24/7 test for Satellite Control and Command Systems.

**Senior Software Engineer -** 1990 to 1998.

HARRIS CORPORATION, METLAB, MELBOURNE FLORIDA;

Experience in all phases of software development, programming in C, Fortran in DOS, Unix and Solaris operating systems. Designed and Developed user interfaces with Motif and X-Windows for a Meteorological Weather Processor (MWP) project. Developed and maintained alphanumeric decoders. Managed the aeronautical data for the meteorological weather system. Installed hardware and software at the US Air Traffic Control Centers. Responsible for customer support via help desk.

Senior Software Engineer for MWP extension program, responsible for GUI and decoder enhancements and for maintaining fielded software up to date with changes in National Weather Formats. Chief software engineer for WARP Stage 0 program. Processes performed to be ISO 9001 compliant.

**Ozone Spectrophotometer Specialist**

FLORIDA STATE UNIVERSITY, T.A.CARNEY AIR POLLUTION LABS; Tallahassee, Florida

Responsible for the ozone data measurements, compilation and verification over Tallahassee. Programmed in Fortran, use and maintenance of Ozone spectrophotometer.

EDUCATION:

**Bachelor of Science in Computer Science**, Florida State University, Tallahassee, Florida

**Bachelor of Science in Meteorology**, Florida State University, Tallahassee, Florida

**Languages**: Fluent in English, Spanish and Italian.