

**Summary:**

- Highly motivated and results-oriented professional with a background in systems development and implementation, altered and maintained databases, supervised plant wide systems integration, qualified new products for optimization, and audited systems for quality control.
- Finished classes for Sun Certified Programmer for Java 6, Oracle Database SQL Certified Expert, and Cisco Certified Network Associate.
- Performed systems concept development, executed systems analysis and requirement definitions.
- Completed systems design, implementation, integration, testing, and preventative maintenance for all major GM plant systems.
- Served as subject matter expert for Quality Andon System, PR&T, and plant specific UI applications.
- Executed user acceptance tests, installation, deployment, and maintenance for plant systems.

**Education:**

The University of Texas at El Paso (UTEP)  
Master of Science in Biomedical Engineering – GPA 4.0/4.0  
Expected Graduation Date – 12/2012

UTEP  
Bachelor of Science in Electrical Engineering – 12/2004  
Graduated with Honors – Summa cum Laude – GPA 3.5/4.0

**Professional Experience:**

**Samsung** Austin, TX 4/2008 – 10/2009

**Engineer I for EDS Wafer Test Solution Department**

- Worked as an integrated team member with other system developers, testers, and customers as part of a service based service process to improve several plant systems.
- Participated with software system design and development team to plan, analyze, design, implement, and maintain standardization efforts for full synchronization with Samsung HQ.
- Adapted to continuous change of requirements and priorities and worked on multiple projects at a time.
- Provided manufacturing support through daily communications with customers to ensure resolution and proper follow-up to ensure customer satisfaction.
- Identified FAB2 Robust unnecessary testing and implemented countermeasures.
- Coordinated with different teams to reduce inking data claims successfully.
- Maintained, modified, and updated databases with Oracle SQL Developer.
- Tested and validated QC Return, Excel Manager Functions, and other UI applications for proper functionality.

**General Motors** Kansas City, KS 1/2005 – 4/2008

**Lead Systems Engineer for Central Engineering Department**

- Executed and reported on support of several plant operations to achieve planned deployment dates.
- Team leader for Systems Team. Supervised, trained, and consulted engineers for systems integration efforts.
- Prepared necessary service, repair, and technical documentation for systems modification and implementation.
- Developed and coordinated design requirements and modifications to exceed customer expectations.
- Analyzed business requirements and maintenance items before making required system modifications.
- Created technical strategies and recommendations for new tools, technologies and program implementation.
- Deployed and maintained Product Routing and Tracking (PR&T) Systems and upgraded Quality Andon System.
- Designed, modified, and implemented tests to validate accuracy of applications by use of reusable scenarios.

# Lily Patricia Aldana

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**General Motors** Kansas City, KS 5/2004 – 8/2004

**Student Intern for Central Engineering Department** 5/2003 – 8/2003

- Cleaned GMX380 Web Dav Folders to reorganize Fairfax Plant Web page.
- Configured, tested, verified, and updated Andon system for assembly line process sequence.
- Validated error-proofing system and ensured proper functionality for system upgrades and modifications.
- Handled COSS documentation and verified proper operation of all torque actions for Quality Control.
- Created several summary spreadsheets for status of error-proofing actions to ensure all stations were tested.

Texas Research Experience Program Austin, TX 9/1999 – 3/2000

**Research Assistant**

- Measured semiconductor properties, quantified semiconductor quality materials for new material research.
- Contributed in all aspects of semiconductor device processing to create and test new semiconductors.
- Researched and increased knowledge of semiconductor testing options to gain research experience.
- Developed teamwork skills by working with professors and graduate students for proper handling of materials.
- Analyzed test results, collected and compiled data for research papers, and submitted project status reports.

**Awards & Accomplishments:**

- Dean's List (2002 – 2004)
- Henrietta Lewis Scholarship (2003-2004)
- Treasurer - Tau Beta Pi Engineering Honors Society (2004).
- Treasurer - Golden Key International Honor Society (2003-2004).
- Peggy Rosson Scholarship Fund recipient (2003).
- EX-Students Scholarship recipient (1998).
- Member - Society of Hispanic Professional Engineers and the Society of Mexican American Engineers and Scientists. (1998 -2004)

**Other Experience & Training:**

- Training in: R-J3iB Controller Electrical Maintenance, RSLogix 5000 Project Development, CIMPLICITY HMI, Mastering Visual Basic 6.0 Fundamentals, Programming a Microsoft SQL Server Database.
- Tutoring in Chemistry, Physics, and Calculus at The University of Texas at Austin
- Bilingual: Excellent written and verbal English & Spanish communication skills

**Computer Skills:**

- Experienced in Oracle Database, UNIX, Java, Eclipse, NetBeans, CIMPLICITY HMI, GNS3, RSLogix, Visual Basic, SQL Server, Oracle SQL Developer, C++, LCP
- Skilled in Microsoft Office, Netscape Composer, Adobe PhotoShop 4.0, PSpice, MATLAB, Primavera, LYNX Digital Photo Management System

**Special Skills:**

- High-energy self-motivated individual with a strong drive for achievement
- Possess excellent verbal and written communication, and presentation skills.
- Fast learner with a great attention to detail and passion to make improvements
- Strong interpersonal skills, project management experience and demonstrated team leadership ability
- Skilled at coordinating and solving complex problems