

EDUCATION

University of Texas at El Paso

MS Computer Engineering
Graduation Date: Spring 2015
Thesis: Optimal Neighbor Discovery in Ad Hoc Networks

El Paso, Texas

Autonomous University of Ciudad Juarez

MBA Quality Management Process, Dec 2005

Ciudad Juarez, Mexico

Metropolitan Autonomous University, UAM

BS Electrical and Computer Engineering, Dec 1999

Mexico City, Mexico

PROFESSIONAL EXPERIENCE

Pegatron Corporation/ASUSTeK Computer Inc. 2004 - 2014

Engineering Manager 2008 - 2014

- Migrated the manufacturing process of PC Desktop and AIO computers business from Pegatron Suzhou, Republic of China to Pegatron Mexico.
- Lead the group in charge of the testing and verification process of Cisco cable modems (EMTA DOCSIS 2.0 and DOCSIS 3.0).
- Coordinate the implementation of 2 production lines for Desktop and AIO HP products with a daily output of 1,000 units.

Engineering Supervisor 2006 - 2008

- Customer to Order (CTO) manufacturing process Implementation
- Developed a software utility to verify the correct configuration of each unit
- Lead a group of 4 engineers 3 technicians in the implementation of the testing for HP Customer to Order market with a daily production of 1k units for North America.
- Supervise the installation and routing of 96 optical fiber drop points from the server room and the manufacturing production line
- Coordinate the implementation and design of the functional testing process for Dell AIO models with a daily capacity of 500 units.
- Server Room Design and Setup, Leading a group of 3 engineers to install and configuration of 8 Prism Servers 12 HP Proliant ML350 Servers, in Windows Server Raid 1, Raid 5, using HP Proliant D1360 G5 and G6 servers as servergates for CTO, BTO and BPC production projects.

Software Engineer 2004-2006

- Implemented ISO 9001:2000 to identify and protect areas sensible to Electrostatic Discharge
- Coordinate the implementation of the calibration system based on ISO/IEC 17025:1999 and ISO/IEC 17025:2005 standards for the Quality Management System.
- Contracted certified laboratories in ISO/IEC 17025 for periodic calibration of the measurement and validation equipment.
- Design a test station for Windows Desktop Image installation in Windows Server and Ghost Multicast environment.

Lite-On Technology. 2002 - 2004

Software Engineer/ Repair Supervisor 2002 - 2001

- Coordinate and training a group of 6 technicians, implement 5S's and 5M's model in the repair area to

minimize second return failures.

- Software Design for functional testing, DOS Scripting.
- Software Development in Visual Basic for a SFIS designed in SQL Server Database.

Acer Inc. / Wistron Corporation. 2000 - 2002

Software Engineer 2001 - 2002

- System Management; ERP, SFIS, Web Services maintenance and upgrades based on Visual Basic tools, networking administration and users support.

Test Engineer/Product Engineer 2000 - 2001

- Preload Image creation and functional testing development.
- Utilities based in C and Microsoft DOS Scripting.

MANAGEMENT SKILLS

- Extensive knowledge in Software Quality Management and Validation of Electronic Devices in Manufacturing Environments
- Application of Manufacturing Quality Techniques to improve reliability.
- Process design and implementation
- Human Relations and Project Management and Administration
- Basic knowledge of Six Sigma Methodologies
- Kaizen, 5S's, 5M's, FMEAS, CAR's
- Bilingual: English and Spanish

TECHNICAL SKILLS

- Programming Languages: Python, C, C++, Bash Script
- OS Experience in Windows Server, Linux OS and MAC OS
- Embedded System design using Microcontrollers and ARM based boards Pandaboards in Linux.
- Applications: Matlab for Image processing and Signal Analysis, Microsoft Project, Microsoft Office, emacs.
- Background in Digital Signals and Image Processing