

# RAFAEL GUTIERREZ

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## SKILLS

Engineering Management, Coaching and Mentoring, Electronics Engineering, Embedded systems, Product development, SCRUM developer, C, Python, ATME1, NXP, Microchip, Analog Devices, Renesas, DSP, RTOS, AUTOSAR, UART, I2C, CAN, A2B, Ethernet, ASPICE, CMMI, JIRA, JAMMA, DOORS, SVN, Git, CD/CI, 8D's, 6Sigma, Agile,

## EXPERIENCE

**Planet Supply San Diego,**

**Jun 2020 /**

### Embedded System Developer

- Work with customer to define system specifications upon which embedded system and Firmware will be developed.
- Define key components of electronics design, build schematic, BOM creation and PCB design.
- Develop customer Firmware and provide ongoing customer support.

**BOSE (Automotive Systems Division), Tijuana / Boston,**

**Feb 2016 / Feb 2020**

### Software Manager

- Responsible for planning, recruiting, and leading a new software engineering team of 15+ developers. Management activities included project resource planning, goal setting, performance reviews, training plans, coaching and career development. Assured the teams compliance with company plans processes and procedures.
- Other management responsibilities were: Team Budget, equipment purchase, trainings and travel planning and approval.
- Responsible for several project development activities, including work estimations, Design Concept Approval, Concept and selling presentations, Road map definitions, and other pre-award activities including customer interaction and presentations.

### Software Technical leader

- Provide technical leadership, in cross-functional teams to define the required scope and technical direction.
- Contributed to all phases of the product software lifecycle, including requirements analysis, design implementation, test coordination, release support, documentation, risk management.
- Analyzed complex technical problems and proposed design of comprehensive solutions.

### Lead Software Developer

- Responsible for firmware development (create, document, and maintain) of core control software in both MCU and DSP.
- Owner of Low-level drivers, Audio Drivers, system intercommunications processes, System integrity and audio processing path.
- Collaborate with cross functional team to define key project items, including deliverables schedule, project scope and specifications, component selection and placement.

**Foxconn, Tijuana MX,**

**Jan 2010 / Jan 2016**

**Product Development Leader**

- prototype development leader for consumer electronics.
- Coordinating the hardware and software development teams to deliver according to OEM spec and on time.

**Software Development Leader**

- Managing customer requirements and responsible for system specifications.
- Responsible for coordinating overseas software providers.
- Managing production requirements for TV product (for Board inspection process and Product final Assembly)

**Software Developer**

- Responsible for Multimedia framework Streaming Interface used in a DSP for audio processing.
- Developed barebones Device driver for use in the Multimedia decoder.
- Responsible for the creation of 2D GUI framework for usage in a TV system.

**SONY, Tijuana MX,**

**Dec 1999 / Dec 2009**

**Software Developer**

- Worked in several aspects of the software development lifecycle for an embedded system used in a Smart Television, analyzing requirements, code development,
- Coordinated with the software quality team to ensure the quality of the deliverables.

**Lead Test Engineer**

- Created an automated test system that was used worldwide within the company, the main advantage was the Low cost, versatility of components and expand-ability. Average savings of 120K per production line.
- Lead the creation and implementation of test equipment and test process for a Linux based network media player.

**Test Engineer**

- Designed communication Interfaces for use in Television test systems.
- Developed Hardware and Firmware for use in communication Interfaces (I2C/SPI/I2S/IR/RS-232)
- Experience with Microchip / Freescale / ST microcontrollers

**EDUCATION**

**UCSD, San Diego CA,**

**Jan 2003 / Jan 2004**

- Embedded systems Diploma

**Universidad Autónoma de Baja California, Tijuana MX,**

**Sep 1994 / Dec 1999**

- Bachelor of science in Electronics Engineering, with Major in Control and Digital communications.