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Luis A. Marquez

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SUMMARY OF QUALIFICATIONS

- Accomplished software engineer with track record of successful embedded software development.
- Proven ability to take designs from concept to production including requirements definition, debugging, verification, and maintenance.
- Strong knowledge of software development in C/C++. Expert in microprocessor based firmware development for hardware control in real-time, embedded environments.
- Analytical thinker that consistently solves problems, and brainstorms new ideas to ensure successful project outcomes.

PROFFESIONAL EXPERIENCE

Dover Flexo Electronics Rochester, NH
Embedded Software Engineer November 2011-October 2014

- Wrote the software for the EasyWeb™ digital controller in C using an embedded RTOS designed to automate a variety of industrial tension control applications. Also designed the analog and digital hardware on a custom board.
- Upgraded existing controller software to add features such as Modbus, USB, and RS232/485 communication.
- Wrote complex control algorithms in C/C++ for closed loop PID controllers and drivers for graphical LCD displays.
- Developed a Java desktop application to upload and download controller data to a PC using a USB 2.0 connection.
- Developed an integrated plug-and-play test stand and user interface to test and verify our tension transducers. This was previously done in a rudimentary way using an array of multimeters.

TECHNICAL EXPERIENCE

Programming Languages	C, C++, Java, and LabVIEW.
Software Tools	Eclipse,Visual Studio C++, MPLAB, Keil uVision, Git, QT Creator, OrCAD.
Board Level Hardware	ARM-Cortex processor, PIC and Freescale microcontrollers. Experienced with I2C, SPI, UART, USB. Sensor and external memory interfacing, LCD and OLED displays.
Target Operating Systems	FreeRTOS, Linux(Angstrom, Debian), Windows.

EDUCATION

New Mexico Institute of Mining & Technology Socorro, NM
Bachelor of Science, Electrical Engineering May-2011

CERTIFICATIONS

- Certified LabVIEW Developer, *NI*-2011
- Intern-Engineer Certification, *NCEES-2012*