

MICHAEL BELLA

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88 E. San Fernando St Unit 711, San Jose, CA 95113

TECHNICAL STRENGTHS

Programming Languages	Embedded C, LabView, Python, C/C++
Software Tools	Eclipse, Git, SVN, Code Composer Studio, IAR, Spice AWR Microwave Office, CADSoft Eagle, Matlab
Design Experience	Low Power Embedded Systems, RF Matching Networks & Amplifiers Analog Signal Processing, High Precision Analog Measurement, SMPS Design
Lab Skills	Root Cause Analysis, SMD Soldering, Wiring harness construction, PCA Bringup and Debugging, Prototyping, Build designs from print
Other Technical Experience	Linux Systems, Texas Instruments MSP430 Processor Family I2C and SPI Buses, Low power ADCs, Low Power Sensors

WORK EXPERIENCE

KLA-Tencor – SensArray Group

Electrical Engineer

December 2011 - Present

Milpitas, CA

- Debug and perform root cause analysis on a wide range of systems.
- Design and tune RF matching networks for use with high power and plasma systems.
- Characterize and test RFID systems for use in ultra low power embedded applications.
- Write automated test and measurement software in LabView to utilize using network analyzers, impedance analyzers, spectrometers, and oscilloscopes.
- Write embedded C for the low power MSP430 processor family
 - Design embedded systems to serve as platforms for new sensor technologies.
 - Adapt existing measurement system architectures for use with new sensor types.
 - Modify existing embedded system code bases to work with new types of sensors.
- Write Python software to process data from new types of sensors being researched in R&D.
 - Apply calibration factors and remove intrinsic sensor offset from the data.
 - Use feature detection to identify process steps in the data, and perform analysis on each step.
- Design PC software and firmware for use with production and research test fixtures.
 - Characterize components for use in new product designs.
 - Test and calibrate high precision embedded measurement system boards for use in new products.
 - Test the functionality of sensor ICs at different steps in their processing.
 - Accurately measure instantaneous power usage of low power embedded systems for use in power budget creation and optimization.

KLA-Tencor Internship

Electrical Engineer

June 2005 - December 2011

Milpitas, CA

- Performed PCB/PCA diagnostic work and repair, failure analysis, SMD rework.
- Developed LabView code to interface with test equipment, and custom embedded systems.
- Characterized

EDUCATION

San Jose State University

B.S. in Electrical Engineering

December 2011