MICHAEL BELLA

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TECHNICAL STRENGTHS

Programming Languages	Python, C, LabView, Verilog
Software Tools	Eclipse, Git, SVN, Code Composer Studio, IAR, Spice AWR Microwave Office, CADSoft Eagle, Matlab
Design Experience	Low Power Embedded Systems, High Precision Analog Measurement Analog Design, SMPS Design, RF Matching & Amplifiers
Lab Skills	Root Cause Analysis, SMD Soldering, Wiring harness construction, PCA Bringup and Debugging, Prototyping, Build designs from print
Other Technical Experience	I2C, SPI, JTAG, Boundary Scan

WORK EXPERIENCE

Apple Inc. – Hardware Test Engineering October 2013 - Present
Electrical Engineer *Cupertino, CA*

· Design and implement test plans for component and system level testing on iOS and accessory projects
- Manage test vendors and contract manufacturers to ensure that all tests are properly implemented.
- Develop python scripts for test automation and data processing.
- Work with engineering teams to identify test line issues, and drive them to root cause.

KLA-Tencor – SensArray Group December 2011 - October 2013
Electrical Engineer *Milpitas, CA*

· Developed production code for ultra low power MSP430 based systems targeted at semiconductor metrology.
- Designed and charactarized RFID systems for use in ultra low power embedded applications.
- Worked with a team to design new embedded system architectures to lower power consumption, improve measurement accuracy, increase system flexability, and increase product reliability.
- Modified existing embedded system firmware and hardware to work with new types of sensors.

· Designed test fixtures for both production and R&D use.
- Designed and tuned RF matching networks for use in high power and plasma systems.
- Developed firmware and software to communicate with and process data from several being evaluated.
- Characterized sensors including optical, temperature, E-Field, and thermopiles.

KLA-Tencor/SensArray Internship June 2005 - December 2011
Electrical Engineering Intern *Milpitas, CA*

· Debugged and performed FA on several types of low power embedded systems.
· Developed LabView applications to interface with test equipment and embedded systems for automated testing.

PERSONAL & STUDENT PROJECTS

Kite Control System for Wind Power Generation *2013 - Present*
- Started this project as part of at team at the first Makathon competition (www.makathon.org)
- Designed rigging to control power kite lines using a servo or stepper motor
- Developing python code to detect a kite using a webcam and openCV
- Developing python library to send commands and setup data to a Logolsol motor controller

Bike Light - 1000 lm Headlamp and RGB Taillamp *2012*
- Designed and programmed a bikelight controller to perform battery monitoring and control RGB LED arrays.
- Calculated power budget, and selected appropriate LED drivers for my application.

SJSU Formula Hybrid Vehicle Team *2010 - 2011*
- Developed firmware for a PIC based battery management system.
- Helped teammates debug issues with their high power switching converter.

EDUCATION

San Jose State University *December 2011*
B.S. in Electrical Engineering