

MICHAEL BELLA

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TECHNICAL STRENGTHS

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|-----------------------------------|--|
| Programming Languages | Python, C, LabView, Verilog |
| Software Tools | Eclipse, Git, SVN, Code Composer Studio, IAR, Spice AWR Microwave Office, CADSoft Eagle, Matlab, JMP |
| Design Experience | Low Power Embedded Systems, High Precision Analog Measurement Analog Design, PCB Layout, 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 efficient implementation of all required tests.
- Work with cross functional engineering teams to identify test line issues and drive them to root cause.
- Automate functional testing and data processing tasks using Python.

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

Low Power Embedded System Design - Research & Development

- Rewrote scheduling and flash data storage code in order to use an existing code base with a new types of sensors.
- Developed firmware for MSP430 family microcontrollers to evaluate new sensor types for customer application investigations.
- Worked as part of a team to design a new embedded system architecture to lower power consumption, improve measurement accuracy, increase system flexibility, and increase product reliability.

Test & Calibration Automation

- Developed python code to extract step heights from data generated by research prototypes.
- Wrote LabView applications to use test equipment such as Agilent 34410A, 34970A, oscilloscopes, and LCR meters.

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

- Debugged and performed failure analysis on 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

- Developing Python code to detect a kite using openCV and send commands to a Logosol motor controller.
- Designing rigging to control a power kite using a servo or stepper motor.
- Started this project as part of a team at the first Makathon competition (www.makathon.org).

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.

Formula Hybrid Vehicle Team - SJSU 2010 - 2011

- Developed firmware for a PIC based battery management system.
- Worked with teammates to debug high power switching converter issues.

EDUCATION

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