

MICHAEL BELLA

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

TECHNICAL STRENGTHS

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| 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

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| KLA-Tencor <i>Electrical Engineer</i> | December 2011 - Present <i>Milpitas, CA</i> |
| <ul style="list-style-type: none">· Debug and perform root cause analysis on systems including manufacturing fixtures, embedded data acquisition systems, and RF systems.· Design RF matching networks, optimize RFID communication systems.· Write LabView software to automate data acquisition using network analyzers, impedance analyzers, ocean optics spectrometers, Agilent benchtop multimeters, and oscilloscopes.· Write embedded C for the low power MSP430 processor family<ul style="list-style-type: none">- 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.<ul style="list-style-type: none">- 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 test fixtures.<ul style="list-style-type: none">- 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. | |

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| KLA-Tencor Internship <i>Electrical Engineer</i> | June 2005 - December 2011 <i>Milpitas, CA</i> |
| <ul style="list-style-type: none">· Performed PCB/PCA diagnostic work and repair, failure analysis, SMD rework.· Developed LabView code to interface with test equipment, and custom embedded systems.· Characterized the magnetically coupled wafer communication system | |

EDUCATION

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| San Jose State University B.S. in Electrical Engineering | <i>December 2011</i> |
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