MICHAEL BELLA

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88 E. San Fernando St Unit 711, San Jose, CA 95120

WORK EXPERIENCE

KLA-Tencor December 2011 - Present
Electrical Engineer *Santa Clara, CA*

– **350°C Calibration System**

· Rewired an existing high temperature oven to be controlled by a National Instruments CompactField-Point.
· Tuned cascaded control loops to bring the isothermal chamber up to each temperature set point with minimal overshoot.
· Designed a lump element model of the inductive wafer charging system in order to implement a simulated wafer communication system.

– **New Sensor Project**

· Modified existing wafer code base to work with new types of sensors.
· Tested modified code to ensure that all low power requirements are met.
· Wrote PC software to launch wafer missions, and to retrieve data from these new sensors.
· Designed custom data processing software in Python to support data driven development of new sensor platforms.

– **FOUP Improvments**

· Designed an improved detector circuit to recover the communication signal from our wafers
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· Designed many different automated test and measurement applications in LabView.
· Wrote LabView software and designed triggering system to capture simultaneous data with two spectrometers.

KLA-Tencor Internship June 2005 - December 2011
Electrical Engineer *San Jose, CA*

· Wrote automated test and measurement applications in LabView for a wide range of projects.

TECHNICAL STRENGTHS

Programming Languages	Embedded C, LabView, Python, C/C++
Tools	Eclipse, git, SVN, Code Composer Studio, IAR, Spice, AWR Microwave Office
Design Experience	Low Power Embedded Systems, RF Matching Networks & Amplifiers Analog Signal Processing, High Precision Analog Measurement, SMPS Design

EDUCATION

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