

Bradley Frost

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OBJECTIVE	Seeking a Fall 2014 Internship/Co-Op related to Electrical Engineering or Computer Science.	
EDUCATION	University of Michigan , Ann Arbor, MI <i>Bachelor of Science and Engineering in Electrical Engineering</i> <i>Bachelor of Science and Engineering in Computer Science</i> • Awards: Dean's List Winter 2013, Dean's List Fall 2013, University Honors Fall 2013 • Relevant Coursework: Digital Integrated Circuits, Microprocessor Systems Design Lab, Data Structures & Algorithms (C++), Semiconductor Optoelectronic Devices, Computer Architecture, Signals & Systems, Logic Design, Programming & Data Structures Shanghai Jiao Tong University , Shanghai, China <i>Study Abroad</i> • Participated in cultural excursions to expand my knowledge of Chinese culture and business. • Volunteered to teach local neighborhood elementary age children English.	April 2015 Major GPA: 3.5/4.0 May 2012 – July 2012
PROJECTS	Electronic Stock Market Simulation • Developed a stock market simulation using C++ that took a list of trades as input and performed a variety of operations chosen by the user such as calculating the median trade price and calculating the most optimal time to trade a given equity. • Gained experience choosing data structures that fit the specification efficiently and allowed for low memory and high-speed performance. Autonomous Air Hockey Robot • Developed a microprocessor-based system for a competitive autonomous air hockey robot through C programs and ARM assembly to a microcontroller. • Interfaced several different devices including a Microsoft Kinect, a stepper motor controlled XY coordinate system, an LCD screen, and an N64 controller to a 8051 microcontroller. 8-bit Ripple Carry Adder • Designed an 8-bit ripple carry adder in Cadence Virtuoso schematic editor for optimal delay and energy by strategically using different logic families. • Analyzed several different circuit designs with spice simulations to gain perspective on how to leverage tradeoffs for optimal performance.	June 2014 February 2014 – April 2014 February 2014 — April 2014
EXPERIENCE	University of Michigan , Solid State Electronics Laboratory <i>Research Assistant</i> • Further technology in solution-processed transparent thin-film transistors for use in LCD displays. • Manufacture high-frequency sub-micron transistors to develop RF circuits from amorphous oxide semiconductors. • Conduct fabrication experiments with different materials and processes to optimize transistors as well as perform electrical testing to measure MOSFET device parameters.	Ann Arbor, MI August 2013 – Present
ACTIVITIES	Undergraduate Student Advisory Board • Facilitate the engagement of undergraduate students in the College of Engineering in the interest of improving living, learning, and social environments by working closely with the College administration. • Identify and implement solutions to critical problems ranging from student societies to future programs in the University. Michigan Engineering Consulting Club • Consult local and global companies on specific projects ranging from systems integration to market analysis. • Work with small teams to set timelines to complete a full project in a single semester.	September 2013 – Present January 2013 – Present
SKILLS	Programming Languages: C++, C, ARM/Thumb, Verilog, Matlab Software: Cadence Virtuoso schematic editor, Eclipse IDE, SPICE, AutoCad	