Eddie Ng

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Education

Tufts University, Medford, MA
Bachelor of Science in Computer Engineering (May 2010)
GPA 3.63, Magna Cum Laude, Dean's List

Computer Skills

Software: Unix, Cygwin, TotalView, Cadence (VLSI design)
Programming Languages: C, C++, JavaScript, Python, Java, VBA, VHDL, Verilog, Assembly Language (Motorola 68HC12 Microcontroller), MATLAB

Relevant Coursework

- Data Structures (C++)
- Operating Systems (C)
- Computer Communication Networks
- Game Development (Java)
- Microprocessor Architecture and Its Applications (with lab)
- Digital Image Processing

Projects

Github Portfolio: http://linked82000.github.io
- WafelLocator: Find the closest Wafels & Dinges truck and get directions to it
- Geocode: Plot a location in both an overhead Google Map and a StreetView
- GameOfLife: Conway's Game of Life in JavaScript

Two-Pass Assembler for MIPS Machine
- Created C++ implementation of assembler
- Translated assembly language code into machine code

Ablockalypse <http://www.eecs.tufts.edu/~eng04/COMP50GD/>
- Created a game for the Android OS using Android SDK (Java)

4-bit ALU VLSI Design *(Fall 2009)*
- Designed schematic for 4-bit ALU with 16 operations
- Designed layout and simulated via Cadence

Work Experience

Raytheon IDS, Marlborough, MA
Software Engineer (June 2010- 2012)
Software Engineer II (2012-present)
- Use C to Develop robust air traffic controller software for the FAA (STARS program)
- Rapidly debug and fix complex software issues across a spectrum of software systems on the STARS program
- Construct and execute successful demo and software feature test plans with high productivity

Tufts University, Medford, MA
Teaching Assistant: Microprocessors (September 2009-December 2009)
Teaching Assistant: Digital Logic Systems (January 2010-May 2010)
- Assist in design and administration of LABs
- Guided and assisted students with solving LAB projects

IVACorporation, Sudbury, MA
Iris-Scan Camera Assembler (July-August 2007)

- Collected, inspected, and prepared device components
- Assembled and tested iris-scan/biometrics cameras

Activities, Awards, & Groups

Morris and Sid Heyman Scholarship Prize (*March 2010*)

Eta Kappa Nu (HKN) Electrical/Computer Engineering Honor Society
Treasurer (October 2009-2010) Member (October 2008-2010)

IEEE Tufts University
Member (October 2008-2010)

Tufts Fencing Team
Member of Foil Squad (September 2008-April 2009)

Sports Update TV Show, Wayland, MA
Director (October 2005-June 2006)
- Oversaw, delegated, and coordinated video shots with cameramen
- Instructed and facilitated crew operations