

Austin Salgat

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Education
Bachelor of Science in Electrical Engineering
Bachelor of Science in Mechanical Engineering
University of Michigan
Ann Arbor, MI
GPA: 3.0/4.0
Graduation: June, 2012

Experience

04/2011 – 08/2011
China Study Abroad Program, Shanghai Jiao Tong University, Shanghai, China

- Spent 4 months in China studying engineering, designing in CAD and building a catapult
- Spent 1 month visiting other major industrial Chinese cities (Harbin and Dalian)
- Learned basic Chinese speech and reading (continuing to study)

05/2010 – 09/2010
Electrical Engineering Intern, Visteon, Van Buren, MI

- Developed an FFT(Fast Fourier Transform) and 3rd Octave Analyzer used to analyze frequency response of vehicles
- Designed an Engine Audio Simulator used in a NHTSA(National Highway Traffic Safety Administration) government study
- Fitted a car with a new audio system, including the design and fabrication of all aluminum mounting plates for the speakers and radio

05/2009 – 12/2009
Jack Kent Cooke Research Fellow, APRIL Research Lab, Ann Arbor, MI

- Developed firmware (C Programming) to allow for interfacing with certain peripherals on 32-bit ARM architecture microcontroller
- Developed firmware (Assembly Programming) for an LED identification beacon on an AVR architecture microcontroller

Skills

- Architectures: x86, ARM, 68HC11, AVR, MIPS, FPGA
- Protocols: CAN, I2C, SPI, UART, VST (Audio Plugin)
- Equipment: Programmable Logic Controller (PLC), Oscilloscope, Digital Voltmeter, Signal Generator, SMD Soldering
- Languages: C, C++, Assembly, Java, Ladder Logic, Actionscript3 (Flash), Visual Basic
- Software: Linux, Windows, Excel, Word, Powerpoint, Subversion
- Design Tools: Siemens NX, CATIA, AutoCad, Multisim, Xilinx ISE, Quartus, Proteus, Cadence

Professional Accomplishments

- Developed firmware for a custom robotics controller which housed a 32-bit ARM architecture microcontroller running a custom nanokernel allowing it to interface with the WiiMotion++ that acted as an inexpensive gyroscope.
- Designed a catapult with a team in CAD (NX) and built it, placed 2nd in competition.
- Used an 8-bit AVR microcontroller programmed in Assembly with a Character-LCD and resistors to create a Digital Voltmeter.
- Setup a LAMP (Linux Apache MySQL PHP) server which hosted personal website and files.
- Constructed and helped design a 3 stage amplifier for MP3 players which included tone control, volume control, and a power amplifier.
- Fabricated a variable power supply (two 0-30V outputs and one 5V output) including constructing the aluminum housing and PCB(Printed Circuit Board).