

Pratik Gangwani

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Github: <https://github.com/Zaydax>

Objective

Searching for an internship for Summer 2016 to utilize and improve my software and hardware engineering skills.

Education

Georgia Institute of Technology, Atlanta, GA 8/2012 - 5/2016 (*anticipated*)
▪ Candidate for Bachelor of Science in Computer Engineering; GPA: 2.80
Georgia Regents University of Augusta, Augusta, GA; GPA: 3.25 (*Transfer Credits*)

Skills

Programming: (2+yrs.) : Assembly, C, C++, Java, Matlab, Python (~1yr): CSS, HTML, PHP, Scala, Shell, SQL
▪ Experience coding for: Arduino, Android, BeagleBone, MBED micro-controller
Software: Labview, Linux, Mac OSX, Microsoft Office, Sublime Text, Quartus II, Vim, Windows
Digital Design: Altera FPGA/DE2 board, Breadboard Prototyping, and State Machine Analysis
Instrumentation: Soldering Iron, myDAQ, Oscilloscope, Multi Meter, Logic Analyzer
Languages: English (Native), Hindi (Fluent), French (Basic)
Communication: Presentations, Public Speaking, Technical Reports, and Team Projects

Projects and Experience

Software Engineering Intern, ThyssenKrupp Elevators America, Atlanta, GA 6/2015 – 8/2015
▪ Worked with Raspberry Pi, Python, and various sensors (barometer, accelerometer, gyroscope, ultrasonic) to create a system that collects data while in an elevator for diagnostic and other test purposes.
Mangagaga, personal side project 8/2014 - Present
▪ Android application written in Java, then ported to Scala
▪ Open source manga reading app that utilizes LuaJ scripts with regexs to parse URL's and display content
LC3b Processor: Computer Architecture, Georgia Tech, ECE 3056 10/2014
▪ Emulated LC3b ISA and multi-cycle microarchitecture via C
▪ Programmed (in C) a single core 5 stage pipelined processor and a multi level cache (including DRAM)
PandaBot, Georgia Tech, ECE 2031 11/2013
▪ Team project to control AmigoBot using IR Remote, had instantaneous response and 3 speed settings
▪ Programmed Altera FPGA, DE2 board, and IR Receiver via Altera Quartus, VHDL and Assembly
▪ Used 16 LSB's from the 32-bit IR signal that provide commands are sent into the I/O bus via tri state buffer
MBED Projects, Georgia Tech, ECE 2036 10/2013
▪ Assembled a circuit with MBED micro-controller programmed via C++
▪ Thermostat: heating and cooling options, plus an auto setting to keep temperature between a specific range
▪ MP3 player: Ability to read files from SD card, along with complete volume and playback controls

Awards and Activities

IEEE Hardware Team, Georgia Tech (3hrs./week) 8/2014 - Present
▪ Head of a 5 person programming team that designed software for Arduino/BeagleBone via C/Python to manage several motors and phototransistors for line following on a robot for IEEE Southeast Con 2015
ECE Ambassadors (2hrs./week) 1/2013 - Present
▪ President: Head of a five person team in charge of department tours, events, and advice panels for students
▪ VP of Tours: In charge of 15 tour guides for planning and execution of tours for prospective students
One Day Project Chair: Georgia Tech American Red Cross Club (2hrs./week) 8/2012 - Present
▪ Head of a 15 person team that organizes an annual nationwide blood drive on 9/11
▪ Raised 778 units in 2013 across 21 schools and ~1000 units across 26 schools in 2014
Team Leader: ECE GT 1000 (2hrs./week) Spring 2014, Fall 2014, Fall 2015
▪ Assisting Professor in planning and giving lectures
▪ Provide advice to ~25 students in a variety of decisions regarding schoolwork, internships, and etc.
Ronald Mc-Donald House Charities Scholarship: \$1000 2/2012