**Pratik Gangwani**

329990 Georgia Tech Station, Atlanta, Georgia, 30332 • pgangwani3@gatech.edu • (706) 504-5964 • U.S. Citizen

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

**Objective\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Searching for an internship for Summer 2015 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**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**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

**Intelligent Transportation Systems,** VIP: Georgia Tech (3hrs./week)8/2014 – 12/2014

* Configured an Android tablet and a modified open source app to communicate with an Arduino, connected to an external GPS to send more accurate location data to Georgia Tech bus tracking system

**LC3b Processor: Computer Architecture,** Georgia Tech, ECE 305610/2014

* 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