**Pratik Gangwani**

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

Seeking a position to further my skills in embedded systems and computer architecture.

**Education\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

B.S. in Computer Engineering; Georgia Institute of Technology 8/2012 - 5/2016

**Experience \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Joint Venture Electrical Architecture Engineer and Data Manager,** GM, WTC6/2018 – Present

* One of two lead engineers providing day to day assistance to PATAC engineering team in development of their CLEA signal database for GEM MY20 program based on our Global B architecture.
* Assisted in closure of ~50 Change Requests in development program.
* Attended weekly CCB and PDT meetings to assist in communication and resolving of issues between PATAC engineering team, LG development team, GM NA, GM Korea, and GM China.
* Black Belt Project: Created and documented more efficient process for Global B and CLEA database compare via beyond compare, reducing analysis time by a minimum of 8 hours (~50%).
* GDM Administrator: Handled ~100 requests for data access, sharing, and storage for GM employees and Joint Venture projects.

**Software Engineer, Infotainment 3.0,** GM, WTC 7/2016 – 6/2018

* Programmed several features and tests in GM Energy app and System UI in Infotainment 3.0 OS
* Assisted Vehicle Defects team and Harman in closing ~25 defects reported by validation team
* Assessed new options for Ubuntu development environments including self-deployed Ubuntu 16.04, IT deployed Ubuntu 12.04 and 14.04 solutions, and provided feedback to improve development environments
* Assisted with setup of a local build machine to automate daily static-code analysis and test suite for apps to aid in solving hundreds of code inefficiencies and decreased the number off failed tests by 15%
* Quickly became an expert in hardware debugging and software update processes on CSM radios to aid ~15+ co-workers in migrating from Android 5.0 to Android 6.0 as well as future updates
* Rewrote documentation to make developer environment setup and maintenance easier for all co-workers

**Software Engineering Intern**, ThyssenKrupp Elevators America, Atlanta, GA Summer 2015

* Configured Raspberry Pi via Python, along with various sensors (barometer, accelerometer, gyroscope, ultrasonic) to create a real-time data collection system for diagnostic and other test purposes.
* Main algorithm uses change in atmospheric pressure via the barometer to calculate the current floor and output all collected system data to a CSV file, within a 2 second cycle once the elevator comes to a stop.
* Designed an Android app to communicate with the Raspberry Pi via Bluetooth to retrieve data files.
* Aided in the design of a 3D printed casing to house the system and properly dissipate heat

**Skills\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Programming:** (2+yrs.): Assembly, C/C++, Java, Matlab, Python (<1yr): CSS, HTML, PHP, Scala, SQL

**Software/Instrumentation:** Doors, RTC,SharePoint,LabView, Linux, Oscilloscope, Soldering, Quartus II

**Languages:** English (Native), Hindi (Fluent in speech), French (Elementary)

**Communication:** Presentations, Public Speaking, Technical Reports, and Team Projects

**DFSS:** Green Belt Certified, Black Belt anticipated June 2018

**Activities\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Infotainment 3.0 T1 Quality Ride** 3/14/18 – 3/16/18

**CEO: One Day Blood Drive Project Inc.** 10/2012 - 10/2015

* Head of a 10-person team that organizes an annual nationwide blood drive on 9/11
* 2013: 778 units in 2013 via 21 schools; 2014: 1183 units via 26 schools
* Assisted in planning volunteer shifts and service events in Atlanta, as well as blood drives on GT Campus

**4th Place; USA Archery Southeast Collegiate Championships**, Male Barebow Division Spring 2015