**Pratik Gangwani**

Augusta, GA • pratikgangwani42@gmail.com • 706-504-5964 • U.S. Citizen

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

**Compute Platform Architect & Integration Engineer - ADAS Compute Architecture,** GM. 7/2018 – Present

* Assisted in definition of technical requirements and neural network use cases for SoCs.
* Defined requirements, assessed and selected safety microprocessors for future ADAS ECUs.
* Defined requirements, assessed and selected Memory for future ADAS ECUs.
* Managed Linux, Windows, and embedded platform development environment for 3 lab benches.
* Implemented an organized source code management system via git and Bitbucket for developer team.
* Set up defect management system in IBM Rational Team Concert for developer team.
* Created an automated test and results analysis harness on host machines connected to embedded platform using shell and python scripts.

**Joint Venture Electrical Architecture Engineer,** TRACK Rotational Program,General Motors.7/2017 – 6/2018

* Co-Lead providing day-to-day assistance to Joint Venture engineering team in development of their electrical signal database.
* Contributed to closure of ~50 Change Requests throughout development program.
* Co-lead two weekly meetings to assist in resolution of issues between 5 engineering teams worldwide.
* Black Belt Project: Created and documented more efficient process for comparing electrical databases via beyond compare, reducing analysis time by a minimum of 8 hours (~50%).
* Global Document Management Administrator: Handled ~100 requests for data access, sharing, and storage for GM employees and Joint Venture projects.

**Software Engineer, Infotainment 3.0,** TRACK Rotational Program,General Motors. 7/2016 – 6/2017

* Programmed several features and tests in Energy App and System UI in Infotainment 3.0 OS.
* Assisted Vehicle Defects team in closing ~25 defects reported by validation team.
* Piloted and assessed several OS options for Linux development environments.
* Green Belt Project: Spearheaded setup of a local machine to automate daily builds, static-code analysis, and test suite to aid resolving hundreds of code inefficiencies and decreased the number of 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 to newer operating systems.
* Rewrote documentation to make developer environment setup and maintenance easier for all co-workers.

**Software Engineering Intern**, ThyssenKrupp Elevators America, Atlanta, GA 5/2015 – 8/2015

* Configured Raspberry Pi via Python, along with various sensors (barometer, accelerometer, gyroscope, ultrasonic) to create a real-time data collection system for various data collection and 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, Bash, C/C++, Java, MATLAB, Python

**Software:** Linux, Mac OSX, Microsoft Office, Visual Studio, Windows

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

**DFSS:** Black Belt certified

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

**Bachelor’s of Science in Computer Engineering**; Georgia Institute of Technology. GPA: 3.1 8/2012 - 5/2016

**Other\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CEO: One Day Blood Drive Project Inc.** 10/2012 - 5/2016

* Head of a 10-person team that organized 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.