ASHVIN ROHARIA

Firmware Engineer

512-239-8021

aroharia@gmail.com

https://aroharia.github.io/mysite

Austin, TX

EDUCATION

Electrical & Computer Engineering

University of Texas at Austin

2013 - 2017

GPA 3.31 / 4.0

EXPERIENCE

Firmware Engineer

Silicon Labs

05/2017 - Ongoing Austin, TX

- Developed low-power BLE demos for customers and conferences
- Set up test platform for capacitive sense touch products
- Performed hardware validation of new board revisions

Power & Firmware Engineer Intern

Intel

03/2016 - 08/2016 Austin, TX

- Worked on the power management controller on a pre-silicon IoT soc
- Fixed multiple firmware bugs on Linux
- Analyzed waveforms on Verdi to debug issues

Server Validation & Debug Co-Op Engineer

AMD

08/2015 - 01/2016 Austin, TX

- Tested SATA ports on “Seattle” ARM server chip revisions through python scripts for 2 bringups
- Built a GUI using XAML, C#, and python in Visual Studio to replace an outdated GUI used to test chips
- Tested microcode patches in a customer issue

Team Lead & Software Engineer Intern

Malauzai Software, A Finastra Company

06/2014 - 08/2015 Austin, TX

- Found bugs in their mobile banking app on iPhones, iPad, and android devices and created JIRA tickets
- Used Ruby to automatize the process of looking up banks in the iTunes store - otherwise done by hand
- Led a team of three interns to help our mobile banking company gain marketing intel

LANGUAGES

C | **C++** | **Assembly** | **Python** | **JAVA** | **C#** | **HTML** | **CSS** | **VHDL** | **English** | **Hindi**

PROJECTS

Acoustic Event Detection Algorithm

02/2017 - 12/2017

- Developed a Python script to train a kNN (machine learning) and classify real-time audio
- Developed a real-time Python GUI to display the mic audio signal, frequency spectrum, and classification

Active Noise Cancellation Embedded System

09/2016 - 12/2016

- Designed a PCB to interface between our code and the LCD screen, mic, headphones, DAC, ADC, etc.
- Used C to develop the active noise cancelling algorithm
- Filmed a YouTube video demonstrating and explaining the embedded system

GroupMe API Data Gathering & Analysis

10/2015 - 08/2017

- Worked on a Python script to convert a group chat transcript into a JSON file
- Created a Python script to display multiple stats analyzed from the JSON file
- Designed a GUI for both scripts to allow for public usage