Tabish Chasmawala

15205 Ora Lane ◆ Pflugerville, TX 78660 ◆ (512) 905-5294 ◆ tabish@utexas.edu ◆ Github: tabchas

Skills

- Dynamic problem solver with the ability to tackle various complex problems
- Experienced in learning new tools and work methods very quickly
- *Hardware Platforms:* Arduino, TI MSP430, Bluetooth 4.0 Low Energy, Zigbee RF Modules, National Instruments CompactRIO
- *Programming Languages*: Python, C/C++, Assembly, Java, LabVIEW, Javascript

Projects

- React Wearables – Won Nest Labs prize at Hack the Planet 2015. An immersive wearable gaming system which uses your body as input to play Street Fighter. Integrates custom developed insole, Myo, OpenBCI, XBee RF Modules, and Nest thermostat
- Instant – Won Top 30 at PennApps 2015. Chrome extension that appears alongside your favorite online retailers. Instant searches for the product you want in your local stores and makes a call to PostMates to deliver the item to you within an hour
- NaturalVR – Won Best Hardware Hack at HackTX 2014. NaturalVR allows you to naturally move around in any game using only natural body movements. Integrates Oculus Rift, Myo, and our own custom hardware built with Arduino and XBee RF modules
- AR15Targets - Designed and deployed an electronic product and LabVIEW interface that allows small shooting clubs to efficiently score and manage a shooting competition
- Airdio (CalHacks 2014) – Bluetooth earphones that can detect in-ear presence and can start and stop music automatically
- Flappy Bird Embedded Systems Project (EE 319K Final Project) – Flappy Bird on a TI Launchpad microcontroller and LCD
- Spicy Circuits (HackTX 2013) – Python script that converts a picture of an electronic circuit to a digital SPICE model

Education

University of Texas at Austin
Bachelor of Science in **Electrical Engineering**, Class of 2017 Class Level: Junior
Emphasis in **Embedded Engineering**

Harmony Science Academy – North Austin
Valedictorian, Class of 2013

Related Coursework: Introduction to Computing Systems, Introduction to Electrical Engineering, Introduction to Embedded Systems, Software Design and Implementation I

Professional Experience

Atlas Wearables Austin, TX
Innovation Engineering Intern 05/15 – Present

- Research and development for an in-shoe wearable that can measure bodyweight and pressure distribution
- Developed working insole prototype and developed visualization and analytics toolkit using Python and Bokeh
- Designed and deployed several PCB layout designs in Altium Designer for our latest production test tool
- Assisted in testing and debugging firmware and hardware

Continuum Analytics Austin, TX
Software Developer Intern 05/14 – 08/14

- Built and deployed several key features in the open sourced Bokeh data visualization toolkit
- Extended developer documentation and fixed minor bugs on several tools including Bokeh and Ashiba

Continuum Analytics Austin, TX
Software Developer Intern 05/13 – 08/13

- Worked with PhD level interns to extend Enaml's framework to allow web apps to be written purely in Python
- Architected a communication layer between Enaml's framework and our new library, Ashiba
- Designed tutorials and documentation to help developers and customers use Ashiba

Continuum Analytics Austin, TX
Data Science Intern 05/12 – 08/12

- Designed and built several data science applications that utilized Continuum's products and tools
- Assisted in developing example applications and presentations for potential customers
- Implemented several fundamental image processing algorithms that demonstrated the speed of Numpy and Numba

Hobbies

Krav Maga Level 3 Student, Boxing, Brazilian Jiu-Jitsu, CrossFit, Juggling, Table Tennis