Rohan Balaji

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Education

Bachelors of Science, Electrical and Computer Engineering   May 2020

The University of Texas at Austin

GPA: 3.77

Intro to Electrical Engineering, Introduction to Computing   Fall 2016

Embedded Systems, Multivariable Calculus, Probability and Statistics   Spring 2017

Work Experience

6/1/17-present	**Undergraduate Research Assistant-***University of Houston*

- Designed a switching circuit to trigger the capture of impedance cardiography data
- Programmed C scripts for the Arduino to initiate the trigger on command

6/24/15-8/20/15	**Engineering for Kids** - *Co-Lead Teacher*

- Worked in a fast-paced environment managing and instructing youth. Instruction was primarily engineering based.
- Reinforced my own engineering skills and motivated children to pursue careers in STEM fields.

Projects

Spring 2017	**Space Invaders**

- Designed and tested a fully functional space invaders game in embedded C
- Interfaced slide potentiometers and LCD to TI microcontroller
- Utilized A/D, DAC, UART

Fall 2016	**Line Following Robot**

- Designed and tested a line following robot using embedded C
- Interfaced light potentiometers and motors using H-Bridge

Fall 2016	**Pictolate-***Hack Tx(unpublished)*

- Developed a webapp using node.js and HTML
- Managed API calls to Microsoft vision and google translate

Spring 2014	**Science Fair Project –** *A Novel Method for Low-Power Energy Harvesting*

- Designed and tested a circuit used for storage of electricity from a piezoelectric transducer.
- Worked with slamstick vibrational analysis system to determine optimal sensor

Skills

C, ARM ASM, Python (OpenCV, Numpy), Django, HTML