ADITHYA ASHOK

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EDUCATION

The University of Texas at Austin   **May 2022**
Bachelor of Science, Electrical Engineering
- Cumulative Grade Point Average: 3.499
- Concurrent Dual Degree: Bachelor of Arts, Plan II Honors

High School (FAIPS-DPS, Kuwait)   **May 2018**
- All India Secondary School Examination (AISSCE) Diploma
- Graduated in the 95th Percentile, with a score of 92.4/100

RELEVANT EXPERIENCE

Development Intern   **December 2017 - March 2018**
CreativeBits/Maker Labs Kuwait
- Assisted in the development of the Snowball eBOT, an ATMEGA1284P educational microcontroller designed for the youth in Kuwait.
- Aided in the creation of the simplified software interface used to program the eBOT and formulated several possible sample projects at various levels of difficulty.
- Validated the compatibility of various sensors and other peripheral elements, subsequently suggesting improvements to the eBOT ecosystem.

Project Leader   **November 2017**
National Science Exhibition
- Designed and built a wearable system to aid the visually impaired with 45% of the budget to spare
- Wrote over 1000 lines of code for the prototype, and designed an array of sensors to provide information on the location and the nature of protrusions
- Further optimized the system to give improved tactile feedback, reducing the accident count by 75%

ENGINEERING PROJECTS

Robotics and Automation Society (RAS)   **October 2018 – Present**
- *Robotathon 2018*: Designed an automated robot to compete in a Robot-Sumo Wrestling Challenge conducted at UT. Winner of the 'Best Mechanical Design' award.
- *Mobile Couch*: Member of team responsible for integrating a motorized wheel system into a couch.

Introduction to Electrical Engineering, Final Project   **December 2018**
- Designed a PWM-based Line Following Robot Car with Obstacle & Color detection capabilities.

Automated Music Synthesizer   **December 2017**
- Formulated an algorithm to generate randomly composed synth melodies in multiple musical scales.
- Actualized a hardware implementation of the algorithm to build a physical synthesizer.

SKILLS

- C++, C, Python, C#, Assembly
- Linux and Windows Operating Systems

- DMMs, LabVIEW and Multisim
- Machining, PCB CAD, related hardware skills