NITISHCHENNOJU

GPA: 3.61/4.0

Driven engineer skilled in several aspects of engineering operations. Consistently accomplishes projects under budget and ahead of schedule. Committed in taking on a leadership role and spend extra-working hours to accomplish optimistic goals. Eager to learn and apply new skills. Interested in working on avionics systems.

Skills

Java, Python, C++, SolidWorks, Arduino C, Shell Scripting, Circuit Design, PCB Design, Soldering, Google Sheets, Google Scripts, MatLab, Machining, Html/Css

Experience

Arizona State University - *Computer Systems Engineering* August 2019 - May 2021
UC Irvine - *Computer Science and Engineering* August 2021 - May 2023

Data Propulsion Acquisition - *Fulton Undergraduate Research (ASU)* October 2019 - *December 2020*
- Obtaining electric fixed-wing UAV performance data to verify/optimize aircraft design from a single flight
- Advanced Data Filtration Used: Analog + Digital (Python/Java program) Filters

IoT 5G Intern - *Open Networking Foundation (ONF)* August 2019 - March 2021
- Evaluated IoT frameworks / communication platforms
- Develop mobile IoT robot application to demonstrate edge computing on Aether 5G

Aviation & Rocketry Club - *President/Founder (High School)* September 2017 - May 2019
- Founded and maintained a club to get students interested in the Aerospace industry
- Led 5 rocket launches (including 1 at a local airshow), grew club from 0 to 30 active members in 1 sem

Projects
(click to view more projects)

Custom Arduino UGV - *Personal Research Project*
- Built Arduino based rover to run GPS waypoint missions with an accuracy of 1 meter
- Other capabilities include telemetry (1km range), PID steering control, max driving speed of 10mph, custom python GUI (w/ live attitude and GPS position updated)
- Controlled by dual arduino custom flight controller programmed in C++

Low Cost Arduino Delta-Wing UAV - *Personal Research Project*
- Developing low cost UAV and associated flight software/electronics capable of accurately flying autonomous missions
- Current capabilities include stabilized flight, altitude hold (testing GPS functionality on UGV)
- Will eventually use same hardware equipped/tested on UGV project (~$40 of flight hardware)

IoT Door Lock - *Personal IoT Project*
- Goal -> Limit things in my pocket when leaving my dorm while allowing for easier access to my room while being equally as secure
- controlled via app/smart home assistant/fitbit app/custom webpage

Dining Hall Selector (ASU) - *Useful Web-based Python Project*
- Goal -> make me lazy, and feed me the best food available at that time
- Algorithm which scrapes online menu to determine optimal dining hall by personal food interests
- Updates html web page and sends email at meal times

Achievements & Leadership

Eagle Scout: 124th Eagle in Troop 390

Avionics Lead / Outreach Coordinator - Sun Devil Rocketry (ASU Student Org)
Electronics Lead - Air Devils (ASU Student Org)
President / Founder - Aviation and Rocketry Club (High School Club)
Project Coordinator - FIRST Robotics FRC (High School team)
Captain / Hardware Lead - FIRST Robotics FTC (High School team)

https://nchennoju.github.io/

Or search 'Nitish Chennoju' on Google
(all projects and research detailed on website)