NITISH CHENNOJU

GPA: 3.78/4.0

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. Interest in working on avionics systems.

Skills

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

Education

Arizona State University - *Computer Systems Engineering* August 2019 - May 2023
Courses: CSE205: OOP, MAT267: Multivar Calculus, MAT243: Discrete

Experience

Data Propulsion Acquisition - *Fulton Undergraduate Research Member (ASU)* October 2019 - Present
- 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)* September 2017 - May 2019
- Evaluate IoT frameworks / communication platforms to be used on ONF's Aether 5G Network
- Develop IoT robot application to demonstrate edge compute on Aether 5G

Aviation + Rocketry Club - *President/Founder* September 2017 - May 2019
- Led meetings to teach members of calculations/physics of various Aeronautical devices
- Led 5 Model Rocketry launches, grew club from 0 to 30 active members

Achievements

Eagle Scout: 124th Eagle in Troop 390
FIRST Robotics awards/leadership (FRC, FTC, FLL): Captain/Hardware Lead of Team 6038 (FTC), Designed/Fabricated AWD Chassis + Ball Intake Mechanism (FRC), Designed CAD models of all significant mechanism of the robot (FTC), 1st place in Lego robotics (2 years)
Tech Challenge by Tech Museum Best Eng Notebook (2014 2016 2017) and Best Design Process (2015 2016)

Projects

Cheap Delta-Wing UAV - *Personal Research Project* January 2019 - Present
- Current capability: Gyro stabilization, Altitude Hold, 3 channel RC flight
- Goal: Autonomous flying capability w/ GPS waypoints

Fin Stabilized Rocket Stage - *Personal Research Project* November 2018 - Present
- Arduino Nano based flight controller
- Current capability: PID Yaw Pitch Roll stabilization. (not launched)

IoT Face Detection Surveillance Cam - *Personal IoT Project* March 2020 - August 2020
- Captures image when a face is detected + Sends email notification after image capture
- Images uploaded to local linux machine daily + Broadcast custom greeting on speaker

IoT Door Lock - *Personal IoT Project* November 2019 - January 2020
- Dorm Door Lock controlled via App/Smart Home Assistant/Fitbit/Custom Webpage

Dining Hall Selector (ASU) - *Public Useful Web-based Python Project* June 2020
- Web Scraping program which chooses optimal dining hall to dine at
- Email sent 3 (programmable) times a day (one per meal) + Updates web menu
- User preference is inputted into the program (more info on website)

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https://www.public.asu.edu/~nchennoj/

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