



NITISH CHENNOJU

(650) - 933 - 7262

No Visa sponsorship required..

nchennoju@gmail.com

GPA: 3.88/4.0

Summary

Dedicated Engineer skilled in many 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 goals. Eager to learn and apply new skills.

Skills

Established 3D-Designing skills in SolidWorks (4 years). Established programming skills in JAVA/Python. Basic electrical skills and knowledge which includes soldering, circuit design, etc... Leadership skills gained from being captain of Robotics team, leadership positions in Boy Scouts, and President of my Aviation and Rocketry club.

Technical Skills

Java, Python, SolidWorks, Arduino C, Shell Scripting, Circuit Design + Basic Electronics, Soldering, Energia, Google Sheets, Google Scripts, MatLab, Machining

Education

Arizona State University - Computer Systems Engineering August 2019 - May 2023
Courses: Object Oriented Programming (CSE205), Calculus 3: Multivariable Calc (MAT 267)
AP Credits in: Physics C: Mechanics & Electricity+Magnetism, Computer Science, Calculus BC + AB

Professional Experience

Data Propulsion Acquisition - FURI Research Member (ASU) October 2019 - Present

- Propulsion data acquisition via GPS, Accelerometer, Thrust, and Pitot Sensor
- Advanced Data Filtration Techniques: Analog + Digital (Python/Java program) Filters
- Objective: calibrate aircraft throttle to maximize certain flight characteristic (i.e. range)

RoboMocha, Santa Clara - Student Intern/Volunteer SEPTEMBER 2017 - January 2018

- Taught / Prepared kids (K-8) Lego Robotics and JAVA
- Develop Lesson Plans and Projects for kids to accomplish (Java and Mindstorm)
- Added Educational Materials to the Website

Aviation + Rocketry Club, Cupertino - 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: 124 Eagle in Troop 390 10/14/2019

First Tech Challenge (FTC) PTC + 3rd Inspire awards Captain/Hardware Lead of Team 6038,

Designed/Fabricated AWD Chassis + Ball Intake Mechanism

FTC Nomination PTC Designed several CAD models representative of each significant mechanism of the robot

Tech Challenge Engineering Notebook award Won award for best Engineering Notebook (2014, 2016, 2017)

Tech Challenge Engineering Design Process Won award for best Design Process (2015 and 2016)

FLL 1st in Robot Game 1st place in Lego robotics competition hosted by FIRST for 2 years

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 - Present

- Captures image when a face is detected
- Email notification after each image captured + Stores images on local linux machine

Eagle Project: Box Libraries - Partnered with Little Free Library August 2019

- Designed and Built 3 Box Libraries under \$300
- Setup book drive to fill box libraries w/ book

IoT Door Lock - Personal IoT Project November 2019 - January 2020

- Dorm Door Lock controlled via App, Smart Home Assistant, Smart Watch, and Personal Website link

Website

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

(all projects and research detailed on website)