## NITISH**CHENNOJU**

Skills

Passionate and skilled engineer with experience in leadership, management, and technical engineering operations. Consistently accomplishes projects under budget and ahead of schedule. Eager to learn and apply my unique skill set and perspective to different markets. Experience with networking, electrical, software automation, graphical interface development, flight hardware, flight controllers, UAVs, fluid/pressure systems, git workflow, and rocket engine operation. Seeking a challenging career

Technical Skills: Python, C++, JAVA, SolidWorks, Arduino, Shell Scripting, Analog Circuits, PCB Design, Soldering, Excel/Google Sheets, Google Scripts, MatLab, HTML/CSS, MIPS Assembly, Beckhoff, Labview, NI DAQS, high pressure systems, test equipment, Confluence/Jira, Git, Dewesoft, Ethernet

	UC Irvine - Computer Science and Engineering → Projects: Rocket Project, UAV Forge (AUVSI SUAS competition team)	June 2023
	<ul> <li>Launch Engineer: Avionics - Blue Origin</li> <li>Flight vehicle operations on console for integration + pre-launch (console trained for INCO position)</li> <li>Launch procedure automation and control panel development using IGS</li> <li>HITL development / validation</li> </ul>	September 2024 - Present
	<ul> <li>Avionics Test Engineer - SpaceX</li> <li>Qualification and acceptance testing core avionics for Dragon and Falcon vehicles</li> <li>Automation of high pressure gas systems, rate tables, TVAC chambers, &amp; Test system bring-up</li> <li>Flight hardware avionics experience</li> <li>Increased test system accuracy by 4 x and decreased production time of tests systems by 50%</li> </ul>	July 2023 - September 2024
Experience	<ul> <li>Chief Engineer - UCI Rocket Project □</li> <li>Led team in <u>successful launch</u> of UCI's first bipropellant liquid rocket</li> <li>Led team in <u>successful vertical test firing</u> of collegiate methalox engine (engine operator)</li> <li>Developed avionics network based communication system + Control GUI</li> <li>Wrote testing procedures for cold flow system verification + static fire + launch</li> </ul>	June 2022 - <i>June 2023</i>
	<ul> <li>DACS Intern - Relativity-Space</li> <li>Designed data acquisitions and control systems (DACS) for component test stand using Beckhoff hardwa</li> <li>Developed schlieren imaging system to detect gas leaks (and other CV scripts for flame detection,)</li> <li>Wrote automation scripts for data management / video processing</li> <li>Developed solar construction time-lapse camera</li> </ul>	June 2022 - <i>August 2022</i> re
	<ul> <li>Navigation Lead - AUVSI SUAS - UAV Forge (UCI MAE Project)</li> <li>Developed navigation algorithms for in-flight obstacle avoidance + full coverage mapping</li> <li>Designed and integrated ~50lb hexacopter using pixhawk FC paired with ROS</li> </ul>	August 2021 - <i>June 2022</i>
	<ul> <li>IoT 5G Intern - Open Networking Foundation (ONF)          <ul> <li>Evaluated IoT frameworks / communication platforms</li> <li>Develop mobile IoT robot application to demonstrate edge computing on Aether 5G</li> </ul> </li> </ul>	August 2020 - March 2021
	<ul> <li>Propulsion Data Acquisition - Fulton Undergraduate Research (ASU)          <ul> <li>Obtaining electric fixed-wing UAV performance data to verify/optimize aircraft design from a single flight</li> <li>Advanced Data Filtration: Analog + Software (Python/Java program) filters</li> </ul> </li> </ul>	October 2019 - <i>December 2020</i>
	Arduino UGV + Telemetry GUI - Personal Research Project □         ●       Built Arduino based rover to run GPS waypoint missions with an accuracy of 1 meter and max driving spece         ●       Capabilities include telemetry (1km range), PID + FF steering control, custom <u>puthon GUI</u> (attitude and GPS)         ●       Controlled by dual arduino <u>custom flight controller programmed in C++</u> ●       Testing platform for low cost UAV flight controller (<\$30 of flight hardware currently) - UAV designed to be	ed of 10mph 5) e disposable
Projects (click for more projects)	<ul> <li>IoT Door Lock - Personal IoT Project</li> <li>Easy access to my dorm room. Controlled via app/smart home assistant/<u>fitbit app/custom webpage</u></li> </ul>	
	<ul> <li>Dining Hall Selector (ASU) - Useful Web-based Python Project □</li> <li>Algorithm which scrapes online menu to determine optimal dining hall by personal food interests</li> <li>Updates html web page and sends email at meal times</li> </ul>	
	Eagle Scout: 124th Eagle in Troop 390         →       Eagle Project: Built 3 book-sharing boxes for the community with only donations (monetary and labor)         →       Planned several trips (including a beach cleanup) and took part in over 200 hours of service	
Leadership	Chief Engineer       - UCI Rocket Project (UCI MAE Project)         Low Cost Flight Controller Research       - Undergraduate Research Opportunities (UROP) @ UCI         Navigation Lead       - AUVSI SUAS - UAV Forge (UCI MAE Project)         Avionics Lead / Outreach Coordinator - Sun Devil Rocketry (ASU Student Project)       S         Electronics Lead - AIAA DBF - Air Devils (ASU Student Project)       S	Senior Year 2022 - 2023 Ongoing Junior Year 2021-2022 ophomore Year 2020-2021 ophomore Year 2020-2021
650 - 933 - 7262	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)	Sept 2017 - May 2019 Sept 2018 - Apr 2019 Aug 2016 - Apr 2017
nchennoju@gmail.com	https://nchennoju.github.io/	

## Or search 'Nitish Chennoju' on Google