

# VAMSI KRISHNA CHINNAMUTTHAVI

+1(929)494 3685 | [Vkc6454@nyu.edu](mailto:Vkc6454@nyu.edu) | <http://www.linkedin.com/in/vamsi-krishna-046a81185>

EDUCATION	
<b>New York University, New York, US</b> Masters of Sciences in Mechatronics and Robotics Engineering. (Specialized in Mobile Robotics) (Networked Robotics Systems, Cooperative Control and Swarming)	2022-2024 (GPA 3.445/4)
<b>The National Institute of Engineering, Mysuru, Karnataka, INDIA</b> Bachelors of Engineering in Mechanical Engineering.	July 2022 (GPA 8.80/10)
TECHNICAL COMPETENCY AND SKILLS	
<b>Computer aided software</b> - CATIA V5, Solid works, Siemens NX12.0, Solid edge. <b>Analysis software</b> - XFLR, ANSYS (Structural and Fluent), MATLAB software (MATLAB, Simulink and Simscape), Abaqus, Hypermesh, Mastercam. <b>Programming languages</b> - MATLAB, Python Programming, C, C++, Pbasic, Html. <b>Other Software and tools</b> - Schneider electric IGSSv15, ROS, Arduino,linux, Raspberri Pi . <b>Other skills</b> - Knowledge in industrial manufacturing and quality control, Knowledge in industrial engineering management, Business communication, Adobe photoshop, Project management.	
INTERNSHIPS	
<b>The New York University Engagement Center (NYU Phonathon). (Role: Engagement Ambassador (On-Campus))</b> <ul style="list-style-type: none"><li>- Conduct meaningful digital and traditional interactions with alumni, parents, and friends as Engagement Ambassadors.</li><li>- Engage donors to donate, verify their information, and share institutional updates</li></ul>	Mar 2023-Current
<b>Bramastra Aerospace System, Chennai. (Role: Intern)</b> <ul style="list-style-type: none"><li>- Modelled and simulated the project titled "Missile Guidance System for Brahmos Missile" in MATLAB Simulink.</li></ul>	Aug 2021-Sept 2021
<b>Balaji Autotech PVT Ltd, Mysuru. (Role: Intern)</b> <ul style="list-style-type: none"><li>- Analyzed, designed and modelled CNC drilling machine bed and worktable from the ground up as project intern in the research and development team.</li><li>- Improved and advanced CAD models in SolidWorks of retrofit CNC drilling machine and other OEM products based on their cost and weight requirements.</li></ul>	Mar 2020-May 2020
<b>Pranavam Aerospace PVT Ltd, Bangalore. (Role: Intern)</b> <ul style="list-style-type: none"><li>- As a summer Intern in the Engineering department, generated G-code and process plan for RB211 industrial compressor stage blades.</li><li>- Developed robust quality inspections plans for the department based on AS9100 and SAE standards.</li></ul>	Jun 2019 -Aug 2019
LEADERSHIP	
Led the Team Aerotantrix student club in undergrad who are interested in aerospace and aeromodelling. <ul style="list-style-type: none"><li>- Led the design, research and fabrication of UAVs (Unmanned Aerial Vehicles) as part of the club.</li><li>- Put in place concrete processes and transformed the team to be research oriented from a primarily competitive background.</li><li>- Brainstormed various prototypes of recovery system for Quadcopter, including extensive calculations and modelling of airbag systems.</li></ul>	
PROJECTS	
<b>Smart fire protection system (Grad school: Sem 1)</b> <ul style="list-style-type: none"><li>- An automated smart fire alarm is modelled, simulated and prototyped.</li><li>- Worked on coding the microcontroller BS2 in Pbasic language to perform the necessary objective</li><li>- Assisted on circuit design and 3D printing.</li></ul>	Team size 4
<b>CNN based Leaf Disease Detection using an AGV with a Modular Robotic Arm (Undergrad school: Sem 8)</b> <ul style="list-style-type: none"><li>- An automated ground vehicle with a modular 3 degree of freedom robotic arm was developed for capturing images of plant leaves and doing other functionalities.</li><li>- Captured Plant leaf images provides a non-destructive method for analyzing the health of the plant using Convolutional neural network model.</li><li>- Created 3D lidar from a single point Lidar and servos for detecting objects and path planning.</li><li>- Worked on generating CNN model to detect leaf diseases.</li></ul>	Team size 4
<b>Image processing-based leaf disease detection using Quadcopter (Undergrad school: Sem 6)</b> <ul style="list-style-type: none"><li>- A micro-size agricultural quadcopter is modelled and simulated in MATLAB Simulink for capturing images of plant leaves.</li><li>- Image-processing was carried out on the captured images to determine if a leaf has been infected.</li></ul>	Team size 2
<b>Communication between SCADA and Arduino microcontroller. (Undergrad school: Sem 4)</b> <ul style="list-style-type: none"><li>- Objective was to create a system which monitors water level in a tank, real time.</li></ul>	Individual project
ACHIEVEMENTS	
<ul style="list-style-type: none"><li>- Led a team in Boeing IIT National Aeromodelling competition 2019 conducted by IITM.</li><li>- Secured 3<sup>rd</sup> place in technical presentation for a micro class category in SAEADC 2019 and overall 12<sup>th</sup> place in micro class category among 100+ clubs</li><li>- Led a team in SAE ADC 2020 competition plane. And secured 7<sup>th</sup> place among 100+ clubs</li><li>- Led a team in Hero Campus challenge Season 6 by hero MotoCorp ltd</li></ul>	

