



NITHYA CHOWDARY | AE16B025
INDIAN INSTITUTE OF TECHNOLOGY MADRAS

Reg. No. 22/AE/21/025

EDUCATION			
PROGRAM	INSTITUTION	%/CGPA	YEAR
Dual Degree in Aerospace Engineering	Indian Institute of Technology Madras	7.99/10	2021
Class XII(BIEAP) ¹	Bhashyam Junior College, Guntur	98.2%	2016
Class X(State Board)	Bhashyam High School, Guntur	10/10	2014
SCHOLASTIC ACHEIVEMENTS			
<ul style="list-style-type: none">Secured AIR 1884 among the shortlisted 2 lakh students in JEE Advanced – (2016)Top 0.01% with AIR 6 among 55,680 students in COMEDK UGET - (2016)Achieved state level ranks 3(2013) and 6(2010) in the Mathematical Olympiad sponsored by APAMTAwarded by Science Olympiad Foundation for securing AIR 1334 in National Science Olympiad (2011)			
COURSE WORK & SKILLS			
<ul style="list-style-type: none">Introduction to Data Analytics*Data Structures & AlgorithmsProbability & Statistics	<ul style="list-style-type: none">Machine LearningDecision ModelsLinear Regression and Modelling	<ul style="list-style-type: none">Fundamentals of Operations ResearchStrategies for Professional GrowthChinese (Beginner)	
Programming Languages: C, Python, R, SQL, HTML, CSS, JavaScript			
Software Packages and Tools: MS OFFICE, Matlab, Latex, OpenFoam, Paraview			
PROFESSIONAL EXPERIENCE			
Textron India Pvt. Ltd <i>Bell Flights</i> Summer Internship <i>(May '19 – July '19)</i>	<ul style="list-style-type: none">Deployed multi-processor based parallel computing to perform OpenFoam simulationsOptimized divergence and gradient schemes specific to airfoil, wing, fuselage CFD gridsIncreased accuracy by 10% through postprocessing and analysis of 300+ simulations		
DRDO <i>Centre for Airborne Systems</i> Industrial Trainee <i>(June '17 – July '17)</i>	<ul style="list-style-type: none">Worked on LRUs² of AEW&C Mission systems installed on EMB145 aircraft of IAF³Analyzed various design strategies, industry grade manufacturing, testing technologiesMonitored Environmental Stress Screening Test of communication systems control unit		
POSITIONS OF RESPONSIBILITY			
Branch Councilor Elected Representative of Aerospace Dept.			
<ul style="list-style-type: none">Elected by 250+ undergraduate student’s electorate to represent them at institute level in SLC⁴ and DCC⁵ meetingsWorked in collaboration with dept. association and placement team aiming overall welfare of the departmentGuided 10+ final year students through their placement interviews and resume building			
Deputy Placement Coordinator Institute Placement Team		<i>(May '17 – April '18)</i>	
<ul style="list-style-type: none">Solely managed company visits, presentations and assessment tests for more than 20 companiesReached out to 30 new companies leveraging professors contacts increasing core placements by 11%Coordinated with a team of 5 members to ensure smooth placements of 40+ final year students			
Finance Coordinator SHAASTRA 2018		<i>(May '17 – April '18)</i>	
<ul style="list-style-type: none">Saved 50-man hours per day and 5000papers by issuing legally authenticable e-certificates to participantsCoordinated with a team of 30, responsible for budgeting, accounting and cash flow of INR ~ 2 crore			
Events Manager Aerospace Engineering Association		<i>(May '17 – April '18)</i>	
<ul style="list-style-type: none">Coordinated with a team of 11 to conduct events, workshops, design contests for betterment of the departmentImplemented a refreshing creative ambience theme for the freshers welcoming ceremony, increased footfall by 20%			
EXTRA-CURRICULAR ACTIVITIES			
Technical	<ul style="list-style-type: none">Placed 4th in Manual Robotics, TechSoc(2017-18), designed and built two multitasking bots from scratchSpearheaded a team of 5, competed with 17 teams in Drone Delivery Challenge by Amazon Web Services		
Sports	<ul style="list-style-type: none">Trained in Throwball under National Sports Organisation programBagged 3rd place as a key player of hostel throwball team in intramural competition 2016-17		
Social	Participated in Terry Fox Run Chennai - 2017 to support Cancer Research		

¹ Board of Intermediate Education-Andhra Pradesh

² Line Replacement Unit

³ Indian Air Force

⁴ Student Legislative Council

⁵ Department Consultation Committee