KIRTAN PATEL

Mobile: (+91) 8347949700 **Email:** kirtan_2605@yahoo.com
LinkedIn: www.linkedin.com/in/kirtan-patel-2605

ACADEMIC BACKGROUND

YEAR	DEGREE	INSTITUTE, CITY	%/CGPA
2019–Present	B.Tech (Aerospace Engineering)	IIT Mardas, Chennai	8.80/10.0
2019	XII – ISC Board	Anand Niketan Satellite, Ahmedabad	95.80%
2017	X – ICSE Board	Anand Niketan Satellite, Ahmedabad	91.00%

ACHIEVEMENTS

- Designated as the '**Head Boy**' for the academic year 2017-18 at Anand Niketan Satellite, Ahmedabad
- Awarded the '**All Rounder of the Year 2017-18**'

PROJECTS

Project Member, **AeroClub IIT Madras** (June 2021 - Present)

Swarm Drone Project	Exploration and Trajectory Tracking - Exploration of unknown environments, creating a map and planning a path through it, and working with PX4 to achieve this
Pollution Analysis Drone	Path planning - Planning the flight path of an autonomous drone which detects pollutants in air. This data is used to determine pollution hotspots in the region.

INTERNSHIPS

Student Scout **CampusFund** (July '20 - March '21)	• Source and Evaluate Student-led Start ups which seek funding • Performed market research and analysis to identify potential business opportunities • Created Advisory Deck and Investment Memo for the Start-ups which are funded • Efficient and Optimal Evaluation of which start-ups move ahead to the funding stage
Student Research Internship Program **IIT Gandhinagar** (May '21 - Present)	• Studied, understood and learnt about various Motion Planning Algorithms • Involved in Development of Path Planning Algorithm for Intelligent Motion Planning for Multi Robot Systems in Structured and Unstructured Environments •
Internal Supervisor **Abyom Pvt Ltd.** (May '21 - Present)	• Planned a 2-month Research Internship in Aerodynamic Optimization for RLVs • Involved in guiding the Interns and helping them understand the steps involved in reading and writing a Research Paper

COURSES

- Numerical Methods in Engineering - IIT Madras (https://github.com/kirtan2605/IITM_EE1103)
- Computational Thinking for Problem Solving - University of Pennsylvania (Coursera)
- Python 3 Programming **Specialization** - University of Michigan (Coursera)

CORE COURSES

- Basic Strength of Materials | Aerospace Structural Mechanics | Vibrations | Aerospace Structures
- Fluid Mechanics | Aerodynamics | Gas Dynamics | Flight Dynamics | Propulsion | Thermodynamics

TECHNICAL SKILLS

- Programming Languages : C | Python3 | MATLAB/Octave | LaTeX
- Software & Libraries : AutoCAD (2D) | FreeCAD | QUCS | GMSH | SU2 | Paraview