



NOVA Jet Propulsion Laboratory

ABOUT NOVA:

The incubation centre was developed by one of the pioneer member **Mr. Nived Hareesh** working as a CEO of Nova and studying in the Final Year Mechanical Engineering Branch. The foundation of the centre is by the final year Mechanical Engineering Students.

The team consists of various students from different branches so as to blend a perfect combination of Well Structured Engineering Projects.

The Incubation centre runs with the Guidance of **Prof. Harshal Shukla**, working as an Assistant Professor in Mechanical Engineering Department as well as faculties from other department too.





SITARAMBHAI NARANJI PATEL

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TEAM MEMBERS:



Name	Post
Nived Hareesh	CEO-Founder
Prof. Harshal Shukla	Mentor/Guide
Mitesh Solanki	Technical Lead-Mechanical
Harsh Vaidya	Technical Lead-Electrical
Kishan Kanani	Engineer
Dhruv Patel	Engineer
Kishan Kanani	Engineer
Jigar Kaneriya	Engineer
Sitanshu Pandya	Engineer
Mohini Mahyavanshi	Engineer
Vishwa Gamit	Engineer
Hasan Patrawala	Engineer

PROJECTS:

On-Going Projects

1) Exledia rover

- Our next project is a rover working on artificial intelligence. The rover will be based on the design and segmentation of the curiosity rover the rover will have intellect drive technology which analyse the surface and suspension will be balanced.

2) Gyro based model rocket stability system

- As we all know that rocket is main equipment for Travelling into space thus the rocket must be ultra-efficient over its journey and stability should be there for achieving proper direction. And hence we are developing our own stability system with advanced navigation and radar technology.

Completed Projects

1) Wind tunnel

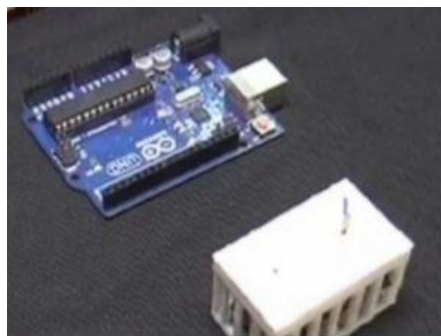
- We designed a subsonic wind tunnel as our centre is more towards space technology as well as to cut the cost of testing our own projects prototype.

2) Rockets Launching

- We conducted a workshop where in around 150 students participated and completed a rocket model designing. Hence, thereby total 23 rockets were launched at a time.

3) World Smallest & Lightest Satellite

- A satellite is developed by Nova Jet Propulsion Laboratory. And it is one the worlds smallest and lightest satellite and had broken the record of previous one that is of 64 gram and 3.8 cm³. The satellite weighs only 29 grams and 3.3 cm³.
- The satellite has mainly low powered microcontroller which is an on board computer that converts and transmit analog signals to digital one. The main intention of this project is to fetch real time data. Along with that it will be transmitting the data to the parent satellite and will amplify the data and send it to the groundstation.



- The satellite will be launched from Ukraine through Endegenous Aerospace Pvt Ltd.

ACHIEVEMENTS:

Following are the appreciations we got from Ministers as well as the forums

- Awarded by World Records of India for achieving Worlds Smallest and Lightest Satellite of 29grams.





In Conversation with ABP Asmita News



WITH HEALTH MINISTER OF GUJARAT

Shri Kishore Kumar Kanani

**“Dhruv Patel, Shri Kishore Kumar Kanani, Mitesh Solanki, Nived Hareesh, Prof. Harshal Shukla, Jigar Kaneriya and Kishan Kanani”
(Left to Right)**



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WITH CABINET MINISTER OF GUJARAT

Shri Anil Bhai Parmar

**“Dr. Ajay Shah, Dr. Piyush Jain, Shri Anil Bhai Parmar, Prof. Harshal Shukla , Harsh Vaidya, Dhruv Patel, Kishan Kanani , Nived Hareesh & Mitesh Solanki, ,
(Left to Right)**



For more details:

<https://abpsmita.abplive.in/videos/surat-students-make-satellite-324341>

<https://youtu.be/GhTc81apyog>