



## Nithin Chandran

**Date of birth:** 13/09/2001

**Nationality:** Indian

**Gender:** Male

### CONTACT

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### CERTIFICATIONS

- **ASNT Central Certification Program Level II**
  - Radiography Testing
  - Ultrasonic Testing
  - Visual Testing
  - Penetrant Testing
  - Magnetic Particle Testing

### SOFTWARE

- Creo Parametric
- AutoCAD
- Ansys
- Repetier Host
- Microsoft Word
- Microsoft PowerPoint
- Canva
- Arduino IDE
- Solidworks

### PROFESSIONAL EXPERIENCE

**13/03/2023 – CURRENT**

#### Graduate Apprentice at VSSC-ISRO

I am currently working as a Graduate Apprentice at the Vikram Sarabhai Space Centre (VSSC), a premier centre of the Indian Space Research Organization (ISRO) dedicated to the development of launch vehicle technology and various space systems.

In this role, I am gaining hands-on experience in the field of Mechanical Engineering. I am involved in various projects and tasks related to aerospace ordinance device manufacturing, Explosive Assemblies, design, and the development of pyro devices .

As part of a project, I designed a functional test fixture specifically for the reefing line cutter used in the drogue and main parachutes of the Gaganyaan crew module.

I also had an opportunity to design a vibration test fixture for both the reefing line cutter and the bolt cutter. This fixture was developed to validate both devices against the rigorous vibration parameters necessary for human-rated space missions, ensuring their structural integrity and functionality are preserved even under the harsh mechanical stresses encountered during spaceflight.

This position has allowed me to apply my academic knowledge in a practical setting, enhancing my skills in Computer-Aided Design (CAD), aerospace device manufacturing, and the design and testing of pyromechanical devices. My work at VSSC-ISRO contributes to the advancement of India's space research and development efforts, providing me with invaluable experience and insights into the aerospace industry.

### EDUCATION

**2023**

#### Bachelor of Technology (Mechanical Engineering)

APJ Abdul Kalam Technological University, TKM Institute of Technology  
CGPA: 7.73/10

**2019**

#### 12th - CBSE

All India Senior School Certificate Examination (AISSCE)  
6.7/10 GPA

**2017**

#### 10th - CBSE

All India Secondary School Examination (AISSE)  
10/10 GPA

## LEADERSHIP SKILLS

- **Chief Executive Officer**

Innovation and Entrepreneurship  
Development Centre, TKMIT

- **Asso. Volunteer Secretary**

National Service Scheme, Unit 544,  
TKM Institute of Technology

## PROFESSIONAL BODY

### **Institute of Engineers India (IEI)**

Member - Student Chapter

Membership No :

691505/TKMI/MC/00031

## LANGUAGE

- **English** (Fluently Speaking)
- **Malayalam** (Native Speaker)
- **Hindi** (Intermediate Speaker)

## FIELD OF INTEREST

- **New Product Development**
- **Manufacturing**
- **Maintenance**
- **Design**
- **Projects**

## OTHER SKILLS

- **Decision Making**
- **Team Work**
- **Work under pressure**
- **Coordination**
- **Good Interpersonal  
Communication Skills**

## REFERENCES

### **Vineeth G M**

Deputy Division Head, Space Ordinance

Mechanism Division, VSSC-ISRO

+91 8943303165

## PROJECTS

**11/11/2022 – 10/04/2023**

### **MARS (Multipurpose Articulated Robotic System)**

Developed an articulated robotic system that is both cost-effective and low-maintenance, aiming to eliminate human error, enhance production rates, and cater specifically to the needs of small-scale industries and startups. This system is designed with adaptability in mind, allowing for easy configuration with various end-effectors, including a laser head, drilling tool, pen holder, and more. Furthermore, it is well-suited for use in confined areas and excels particularly in repetitive and monotonous work. Currently the prototype incorporates a laser head. Additionally, the system is equipped with an intuitive and user-friendly interface to ensure convenient operation.

**08/07/2022 – 29/07/2022**

### **IoT Home Automation**

Developed IoT based Smart Home Automation Using Blynk & ESP32 to control an 8-channel relay module from the manual switch & smartphone using the Blynk App. If the internet is not available, then it can control the home appliances from manual switches.

## VOLUNTEERING & LEADERSHIP

### **Innovation and Entrepreneurship Development Centres**

As CEO of IEDC TKMIT, I had the opportunity to conduct numerous technical and skill-oriented programs that provided students with the chance to experiment and innovate. Through collaborations with Kerala Startup Mission, ICT Academy, and YIP, our exco was able to offer students a platform for learning, growth, and networking.

### **National Service Scheme (NSS)**

NSS Volunteer and Associate Volunteer Secretary of NSS unit 544. Completed 800 hours of active volunteering under NSS from the academic year 2020 to 2022. Involved in many socially recognized activities including Environment awareness campaign, educational assistance initiatives for the socially and economically backward students, disaster management ventures.

### **Student Convenor (AMET)**

I was appointed as the student convenor of 2-day workshop and exhibition on "Space Technology," which was organized by the Association of Mechanical Engineers TKMIT (AMET) in association with ISRO and the Indian Society for Heat and Mass Transfer Regional Chapter, Trivandrum. The workshop and exhibition were attended by more than 200 students from different colleges across Kerala. Additionally, the exhibition drew the attention of more than 1000 school students. As the student convenor, I was responsible for coordinating with the organizing committee and managing various tasks, such as event promotion, registration, and logistics.

## **DECLARATION**

I hereby declare that the above mentioned details are true to the best of my knowledge and belief.

**DATE: 28/12/2024**

**NITHIN CHANDRAN**