

# Khush Vasudeo Patil

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## WORK EXPERIENCE

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Avionics Research Trainee

Nov 23 - Jul 24

Manastu Space | Mumbai, India

- Electrical & Electronics:
  - Managing the qualification process of materials, including overseeing testing, verification, and validation .
  - Conducting testing, verification & Validation of the electronic payload in CubeSat.
  - Perform circuit design and verification for the electronics package of the payload.
- Supply Chain Management:
  - Identify qualified vendors who can supply the required materials.
  - Assess each vendor's reputation, product quality, pricing, lead times, warranties, and customer service
  - After finalizing contractual terms with the selected vendor, execute a formal purchase order and facilitate material delivery

Technical Intern

Jan 23 - Jul 23

Paras Aerospace Pvt. Ltd | Mumbai, India

- Experience with UAV platforms and autopilots:
  - Worked with a variety of UAV platforms, including Ardupilot and PX4.
  - Worked on integrating, operating, and tuning autopilots on a variety of unmanned vehicles.
- Flight-planning and ground control station software:
  - Experience developing and using flight-planning and ground control station software - RealFlight.
  - This experience allows me to plan and execute complex flight missions safely and efficiently.
- PCB design:
  - I have experience designing and creating PCBs, including a PCB for a strobe light.
  - This experience allows me to design and create custom electronic components for UAVs.

## EDUCATION

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B.E. in Electronics and Telecommunications from Mumbai University

Aug 2019 - Jul 2023

## SKILLS

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Circuit Designing | Electronics Hardware Design | Project Management | Communication | Leadership | Time Management | Adaptability | Problem Solving | Teamwork | Creativity | Supply Chain |

## TECHNOLOGIES

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Linux | Ubuntu | FreeBSD | Debian | Windows | Ardupilot | PX4 | RealFlight | Python | JavaScript | Bash | Scripting | GitHub Actions

## PROJECTS

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### Design of PIFA for 5G Application

- We have designed PIFA antennas and analyzed their performance under normal conditions to demonstrate the feasibility of 5G operation

### Phyzee

- A Group of Four students developed an app that connects youth with mentors and coaches focused on the sport of their choice, while supporting health and well-being and quality education, while reducing inequality in India which helped us to get Global 2nd Runner up in Project Management Institute Make Reality Challenge 2021

### V.I.E.H Hybrid Encryptor

[View in GitHub](#)

- Data Encryption Program
- This data encryption program uses the RSA and AES algorithms to encrypt and decrypt data. It is written in Python and can use prime numbers to generate encryption keys.

### IoT Communicator using ESP32

[View in GitHub](#)

- I developed an IoT communicator using Google Assistant and ESP32. The communicator uses the Websockets protocol to communicate with a cloud-based server hosted on Heroku. Dialog Flow is used for natural language understanding, and Actions on Google is used as the development platform for Google Assistant.