



Jonish Abisheck

B.E Mechanical

CGPA : 8.53

Birla Institute of Technology and Science, Pilani – Goa
Campus

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EDUCATION

- **Under Graduate: Birla Institute of Technology and Science, Pilani – Goa Campus** 2021 - 2025
B.E Mechanical, Goa CGPA: 8.53/10
- **Minor in Robotics and Automation - BITS Goa** Aug 2023 - May 2024
Courses: Robotics, AI for Robotics, Control Systems, Mechanisms and Machines, Machine Learning CGPA: 9.125
- **Online Bsc Data Science Course: IIT Madras** Jun 2021 - Aug 2022
Courses: Maths, statistics, Python CGPA: 8.6
- **Intermediate Education: Maharishi International Residential School** 2021
Central Board of Secondary Education, Tamilnadu Percentage: 94.2
- **Secondary Education: Jawaharlal Nehru Higher Secondary School** 2019
Central Board of Secondary Education, Tamilnadu Percentage: 93.2

EXPERIENCE

- **International Institute of Informational Technology** Jun 2024 - Present
Internship Hyderabad
 - I am working under Professor Dr. Hrikumar Kandath on an Autonomous Flapping Wing MAV. My work involves finding the trim condition during flight and also making a convertible MAV that can be converted to a fixed-wing using a propeller.
 - Project Entails Knowledge of Aerodynamics, Flight dynamics, control theory.
- **Indira Gandhi Centre for Atomic Research** Jun 2023 - Jul 2023
Internship Kalpakkam
 - I was working under a scientific officer in a nuclear power plant. My work is to model the core of a power plant using Python and validate the Result.
 - The project entails applying heat transfer knowledge and employing Python for core modeling, while data storage and result plotting were accomplished using Excel.
 - Also presented a technical talk before a panel of three scientists.

PROJECTS

- **Hologlyph Bots** Jul 2022 - May 2023
I participated in the e-yanta 2023 competition held by IIT bombay.
 - Leading a team of 4 members, I performed a simulation using three robots that worked simultaneously to trace a particular path.
 - Tools used: Python, ROS2
- **Legged Robotics** May 2023 - May 2024
I was collaborating with Professor Dr. Ganesh M. Bapat on a project related to trans-tibial prosthesis.
 - Mathematical modeling of a human leg with a trans-tibial prosthesis to determine the force applied on the socket during the swing phase of human gait.
 - Tools used: Matlab

TECHNICAL SKILLS AND INTERESTS

Languages: SQL, Python,

Softwares: ROS2, Matlab, Solidworks, Ansys.

Coursework: Robotics, AI for Robotics, Control Systems.

Soft Skills : Problem-solving, Effective Communicator, Teamwork, Adaptability.

Areas of Interest: I am interested in exploring the field of robotics, with a focus on mathematical modeling and applied physics.

ACHIEVEMENTS

- **Paper Publication at 2023 IHMTC conference** Dec 2023
I have published a paper at the 2023 IHMTC conference on the work related to fast breeder reactor.