Jonish Abisheck

B.E Mechanical
CGPA : 8.53
Birla Institute of Technology and Science, Pilani – Goa Campus

+91-7397363743
Linkedin
f20211743@goa.bits-pilani.ac.in

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

• Thesis: International Institute of Informational Technology *Jun 2024 - Present*
Flapping wing Robot 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.

• Internship: Indira Gandhi Centre for Atomic Research *Jun 2023 - Jul 2023*
Nuclear Power Reactor 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.