



Debjit Das

Mechanical Engineering
Final year student



6291853074



debjit.das.1729@gmail.com



<https://www.linkedin.com/in/debjit-das-4610b1228>



Uttarpara, Hooghly,
West Bengal

Education

► Higher Secondary

Uttarpara Govt. High School (2018 – 2020)
XII Percentage: 96.6%

► B.E Mechanical Engineering

Jadavpur University (2020–2024)
Average SGPA: 8.89

Research Experience

► Thermoacoustic refrigerator

Prof. Achintya Mukhapadhyay
(Mechanical Engg., JU)

A numerical and experimental approach to create an efficient refrigerator using standing waves containing significantly less moving parts thus less energy loss.

► Numerical simulation of transient phenomena

Prof. Pranibesh Mandal (Mechanical Engg., JU)

A study involving numerical simulation of the transient phenomena in a steel piping system carrying water in a thermal power plant. Principle focus being valve timing and its effect on fluid transient in a pumping main.

► Robotic arm modification

Prof. Rana Saha (Mechanical Engg., JU)

Exploring APIs and coding fresh framework to convert an existing Linux based robotic arm framework to Windows & Matlab based system.

► Pneumatic duct design

Prof. Rana Saha (Mechanical Engg., JU)

An analytical and experimental approach to design a pneumatic duct for transferring delicate tea leaves. The duct is to be mounted on a rover manufactured to be employed on tea garden, capable of plucking and pruning operation.

Internships

► ITC Limited

29 May – 22 July, 2023

Project Brief: A data driven approach along with technical & systemic interventions at ITC Kidderpore Filter plant to drive quantum improvement in waste levels of filter.

Skills

- Solidworks
- Python
- C programming
- AutoCAD
- PLC programming
- Excel
- Critical thinking and problem solving

Achievements

► Siemens Scholar

2021–present

• Mechatronics Training

Basic (April, 2022) and Advanced (Dec, 2022) Mechatronics training. With hands on experience on:

- PLC programming on TIA–V16 portal.
- SolidEdge training
- Basic automation programming of table top mechatronics training system e.t.c.

• Soft Skills Training

Analytical and critical thinking, soft skills and communication skills training.

► AIRBUS day innovation challenge winner

Won the competition with project title "Algae based sustainable aviation fuel for a better future", focusing on sustainability and long term goals in aviation sector.