

Abinash Das

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SUMMARY

Motivated Mechanical Engineering undergraduate with strong interests in robotics, product design, automation, embedded systems, and software development. Experienced in leading technical teams, developing innovative engineering solutions, and participating in national-level hackathons and competitions. Seeking opportunities to apply technical, analytical, and leadership skills in engineering and technology-driven projects.

EDUCATION

Jorhat Institute of Science and Technology (JIST), Assam

Bachelor of Technology (B.Tech)–Mechanical Engineering

Current Status: 3rd Year

Higher Secondary (Class XII), Percentage: 59%

Secondary School (Class X), Percentage: 72.8%

EXPERIENCE

Event Management Lead

(08/2026 - present)

Training and placement cell, JIST

Joint-Secretary

(06/2026 - present)

Design Co-Lead

(12/2025 - 06/2026)

JIST Robotics Club

- Led design and development activities for robotics projects and competitions.
- Mentored team members in CAD design, prototyping, and fabrication.

Chief Hardware Officer

(09/2025 - 04/2026)

SpaceBorn (A Startup Based on AI Drones)

- Managed hardware development and prototyping activities.
- Worked on engineering solutions, product design, and system integration for 5 months.

PROJECTS

Automatic Solar Panel Cleaning Mechanism

- Designed an automated cleaning system to improve solar panel efficiency.
- Integrated mechanical transmission and automation concepts for periodic cleaning.

Hybrid Solar + Vertical Windmill Power Generation System

- Developed a renewable energy concept combining solar and wind energy generation.
- Focused on maximizing energy production in varying environmental conditions.

Centralized Public Service Complaint Management Web Platform

- Developed a web-based platform for efficient complaint registration and tracking.
- Implemented frontend and backend functionalities for user interaction.

Robotics & Embedded Projects

- RC Plane
- Drone

- RC Boat RC
- Car Mini
- Robot
- Ornithopter
- Multiple Arduino and ESP32-based automation projects

TECHNICAL SKILLS

AutoCAD

SolidWorks

ANSYS

Onshape

C Programming

Python

Java

HTML

CSS

Full Stack Development

App Development

Arduino

ESP32

Robotics System Design

IoT Development

Sensor Integration

GitHub

Microsoft Office

MS Word

CERTIFICATIONS

Techniche IIT Guwahati Campus Ambassador

IIT Bombay Techfest Campus Ambassador

TechSprint Hackathon Participation

Snestron Full Stack Development Internship (1 Month)

CodeC Web Development Internship (1 Month)

PHN Technology 3D Printing Workshop Participant

IIT Dhanbad Consulting Case Study Competition Participant

Various Technical Workshops, Competitions, and Innovation Programs

ACHIEVEMENTS

- Finalist – India Innovates Competition - Top 400 Shortlisted – Hack for Green Bharat Hackathon - Participated in multiple National-Level Hackathons - Successfully organized robotics workshops and technical events - Active contributor to engineering innovation and student technical activities

LANGUAGES KNOWN

- English - Hindi - Assamese

AREAS OF INTEREST

- Robotics - Automation - Embedded Systems - Product Design - CAD Modeling - 3D Printing - Aeromodelling - Renewable Energy Systems - Full Stack Development