

B.Tech - Engineering Physics Indian Institute of Technology Guwahati +91-9773102188 harshajayrana15@gmail.com harsh.ajay@iitg.ac.in

Education

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2020 - Present	B.Tech	Indian Institute of Technology, Guwahati	8.67 (Current)
2019	Senior secondary	HSC board	87%
2017	Secondary	ICSE board	94.83%

Projects

• NUCLEUS(New understanding of the Conditions for Life Based Experiments up in Space) The Biosatellite Program

Aim: To launch a 1U **CubeSat** equipped with a live specimen to space.

Ongoing

• FPV(first-person-view) Drone

Developed a **Quadcopter** that can be flone through the pilot's view. (*using a camera onboard*)

June 2019

· Remotely controlled car

Developed a RC car with Ackermann mechanism using Arduino.

Nov 2019

Solar-powered lamp

Developed a solar lamp that can detect sunlight and automatically orient itself for the generation of electricity.

Nov 2019

· Remotely controlled plane

Nov 2019

Technical skills

• Programming languages: C, Python

• Web technologies: HTML

• Database management: mySQL

• Miscellaneous: Arduino

• Operating system: Windows, Linux

Experience

• Inter Hostel Technical competition (Kriti)

Built Arduino based projects.

Nov 2019

• Inter Hostel Cultural competition (Manthan)

Participated in the photography team and photo walks.

Jan 2020

Achievements

• **JEE Advanced/mains 2019:** Secured All India Rank 4971 among 10lakh candidates appearing for the test.

Key courses taken

- C Programming
- Engineering Mechanics
- Engineering Drawing
- Electronics

- Mathematics
- Physics
- Chemistry
- Biology

Extracurriculars

- Python for Everybody specialization: By University of Michigan on Coursera.
- Deep Learning course: By IIT Madras professors on GUVI.
- SolidWorks workshop: Attended a 2-day workshop on 3D modeling.
- Ngspice workshop: 1Day workshop on basic Ngspice code and IC design.
- Lightroom: 1Day workshop on photo editing.
- Android App Building: 2Day workshop building basic apps in Java.