

Ratan Raj Ojha

Instrumentation Engineer

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🌐 [Portfolio Website](#)

Projects

DIY Lab Final Submission (Coursework)

[YouTube Link](#)

June 2021

As a team we built an automated image-processing-based fire extinguisher. This project was built with its future implementation in fire fighting service.

Senior Secondary CS (Python) Project

[GitHub Link](#)

Jan 2020 - March 2020

As a team of two we developed a program to make the task of assigning substitute teachers easy, as we saw the hardships our teachers faced every morning.

Positions of Responsibility

Sub-Head at National Students' Space Challenge (NSSC) 2021

[NSSC 2021](#)

Conducted 10th edition of NSSC in online mode. I was a member of WebD team and member of judging panel for the events Designer and Letters from the moon.

Hall Involvements

Patel Hall of Residence, IIT KGP

Contesting for the post of Secretary Technology for the academic session 2021 - 2022.

Education

Indian Institute of Technology, Kharagpur.

Dual Degree in Aerospace Engineering

2020 - Present

CGPA (Third Semester): 8.73 / 10.

Kendriya Vidyalaya, Sec 24, Noida, UP.

PCM + CS (Python), CBSE.

2010 - 2020

- Senior Secondary (XII): 95.20%
- Secondary (X): 98.40%
- Served as Head Boy for the academic year 2019-2020.
- Secured first position in class from 6th to 10th.

Technical skills

- Programming & Scripting Languages: C/C++, Python 3, MATLAB, MySQL, Arduino, Assembly, Shell Scripting (Linux), HTML, CSS.
- Tools: Microsoft Office, LaTeX, Ansys Fluent, FreeCAD, Andriod Studio.
- Operating systems: MS Windows (XP and later), Linux (Debian & Fedora)

Extra-Curriculars

- FQTQ member at Space Technology Student Society (spAts), IIT Kharagpur.
- Member of Technology Filmmaking and Photography Society (TFPS), IIT Kharagpur.
- NCC Cadet at 1 Bengal EME Coy NCC.
- Qualified till Tritiya Sopan in Bharat Scouts and Guides.