



Yatin Saini

Bachelor of Technology
in Mechanical Engineering
Indian Institute Of Technology, Ropar

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	8.35 (Till 4th Sem)	2018-2022
Senior Secondary	Central Board of Secondary Education	93.8%	2020
Secondary	Central Board of Secondary Education	91.6%	2018

EXPERIENCE

- Mechanical Team Leader E-Baja** *August 2021 - present*
Faculty Advisor: Dr.Dhiraj K.Mahajan
 – Designing and Simulation of ATV using softwares like MATLAB, Solid Works, IPG Carmaker etc.
 – Research and design the best performing ATV along with proper safety at minimal cost.
- Research Internship, Waste Additive Manufacturing under Prof. Harpreet Singh** *June 2022 - present*
Working with Malkeet Singh
 – Working on new techniques for waste reduction and its future in Additive Manufacturing.
 – Doing its Life Cycle Analysis along with Circular Economy.
- AWaDH (Agriculture and Water Technology Development Hub)** *June 2022 - present*
Summer Intern
 – IOT based automation of hydroponics system.
 – Research and development of new equipments.

PROJECTS

- Vehicle Number Plate Detector** **Github**
C++ and OpenCV
 – Using a camera it helps in recognising the number plate and draws a contour around it.
 – Captures its image sequentially and saves locally.
- Document Scanner** **Github**
C++ and OpenCV
 – Uses a picture of any document to take it out and give image just as if it is scanned.
 – Cutting out from external environment, warp, resizing, cropping are some of the operations involved.
- Virtual Painter** **Github**
C++ and OpenCV
 – Using a webcam it detects green and blue colored pens.
 – After detecting wherever we move pens it paints on screen with respective color.

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python, HTML, CSS
- Machine Learning:** Supervised Machine Learning
- Simulation Software:** MATLAB, Solidworks, ABAQUS
- Arduino:** Intermediate Level
- Additional Softwares:** Adobe Photoshop, Adobe Premier pro, MS Excel

KEY COURSES TAKEN

- CSE & Maths:** Introduction to Computing and Data Structures, Probability and Statistics, Calculus, Linear Algebra, Differential Calculus
- Others:** Tinkering Lab, Basic Electronics, Economics, Fluid Mechanics, Thermodynamics, Theory of Machines, Design Lab, Solid Mechanics, English Language Skills

ADDITIONAL CERTIFIED COURSES

- Mastering Data Structures & Algorithms using C and C++** **Certificate**
Udemy
- Supervised Machine Learning: Regression and Classification** **Certificate**
Stanford University & DeepLearning.AI

POSITIONS OF RESPONSIBILITY

- Representative,** ARTURO, Photography Club of IIT Ropar *Oct. 2021 - Present*
- Student Representative,** Career Development and Placement Cell, IIT Ropar *March. 2022 - Present*
- Session Coordinator,** Society of Mechanical Engineers, IIT Ropar *April. 2021 - Present*
- Organising Team Member,** Student Leadership Conclave, IIT Ropar *March. 2022 - Present*
- Event Coordinator,** Zeitgeist IIT Ropar *August. 2021 - August 2021*
- ISMP Mentor,** Institute Student Mentorship Programme, IIT Ropar *April. 2021 - Present*