

Aakarshak Dass

MECHANICAL ENGINEERING AT INDRAPRASTHA UNIVERSITY, DELHI



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Scarborough, ON, CA

LINKS

- [Aakarshak Portfolio](#)
- [Youtube Channel](#)

SKILLS

3D Modelling

- **CATIA V5** and **SolidWorks** used in various projects involving **Part Design, Assembly Design, Surface Design, Sheetmetal, FEA Analysis, Sketch Tracer**, and **Drafting**
- **AutoCAD** used to **draft 3D Modelling** and **2D Engineering Drawings**
- **Blender** used to **animate** and **create** various **models**

Programming & Electrical

- **Python** used in various projects related to **Games, OpenCV**
- **Arduino, Soldering**
- **HTML & CSS**

LANGUAGES

- HINDI
- BENGALI
- ENGLISH

EDUCATION

Guru Gobind Singh Indraprastha University

B.Tech in Mechanical Engineering (2017-2021)

- **First Division**
- **Term Average: 7.18 CGPA**

Centennial College, Scarborough, Canada

Advanced Diploma in Automation and Robotics

(JAN 2023 - PRESENT)

RESEARCH PAPERS

Fundamental of Fluid Dynamics for the spread of COVID-19

International Journal for Technological Research in Engineering
Volume 8, Issue 5, January-2021

Design and Analysis of the Wheel-Mounted Mechanical Arm using CATIA V5

International Journal for Technological Research in Engineering
Volume 8, Issue 11, July-2021

WORK EXPERIENCE

CENTENNIAL COLLEGE, PROGRESS CAMPUS, ON, CA

(Student Researcher)

- Research project based on 3D Modelling and Rendering of a hydrogen fueling station

INTERESTS

- SINGING
- GUITAR
- FOOTBALL
- ATHLETICS

ACHIEVEMENTS

- Participated in **All-India Athletics Competition**
- Got **3rd Place** in **Robo-Race Competition**
- Got **3rd Place** in **Robo War**
- **1st Place** in **4x100m Relay Race** in **University Athletics Meet**
- **1st Position** in **100m Race** in **School Athletics Meet**
- Participated in **IIT Robo Competition**
- **3rd Position** in **200m** in **CBSE Inter-School Athletics Meet**
- Participated in **CBSE Inter-School Football Competition**
- Got **1st Prize** in **Street Play**
- **2nd Rank** in School for **International Mathematics Olympiad**
- **2nd Position** in **High Jump** in Athletics Meet
- **3rd Position** in **100m Relay-Race** in **DTU Inter-College Sports Fest**

INDUSTRIAL TRAINING

P.K. Panchal - Machine Tools

(12TH JUNE, 2019 - 24TH JUNE, 2019)

- Learned to work with **Lathe Machine, Horizontal Milling Machine, and Cylindrical Grinding Machine**

Ranjit Welding Works

(3RD JULY, 2019 - 17TH JULY, 2019)

- Learned to work with **Gear Hobbing Machine** for different types of gears

PROJECTS

Major Project | Bachelor of Technology

Wheelchair Mounted Robotic Arm

July 2021

Catia V5R21 Projects (Portfolio)

- **Front Axle Housing**
Project Date: 7th July, 2018
- **3D Racing Seat Design**
Project Date: 1st July, 2018
- **V6 Engine Design**
Project Date: 27th June, 2020
- **BMW Car Body Design**
Project Date: 22nd June, 2021

AutoCAD 2021 Projects (Portfolio)

2D Drafting.

- **Spur Gear Design**
Project Date: 10th August, 2020
- **Plummer Block**
Project Date: 20th August, 2020
- **Anchor Design**
Project Date: 20th August, 2021

3D Modelling.

- **3D Jet Engine**
Project Date: 25th January, 2021
- **3D Bottle Design**
Project Date: 23rd, May, 2021
- **Impeller Design**
Project Date: 15th July, 2021

Blender Projects (Portfolio)

Low Poly Character

Project Date: 7th December, 2021

Spider Robot

Project Date: 10th December, 2021

PUBG Drop with Simulation

Project Date: 2nd December, 2021

Python Projects (Portfolio)

Space Shooter Game

Project Date: 16th October, 2021

Lane Detection using OpenCV

Project Date: 10th December, 2021

Virtual Painter using OpenCV

Project Date: 2nd January, 2021