

ARYAN GUPTA

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EDUCATION

Indian Institute of Technology Delhi

July 2018 - Present
Bachelor of Technology
Mechanical Engineering
CGPA: 9.12 (Present)

Delhi Public School R.K. Puram

April 2014 - April 2018
Class XII: 96.4%
Class X: 10 CGPA

SCHOLASTIC ACHIEVEMENTS

Certification of Merit: Amongst the **top 7 percentile** of students from 2018 entry batch in the 2nd Semester of 2018-2019

Department Change: Amongst the **5%** of students who got their department changed at the end of first year

Department Rank: Ranked **5th** amongst 77 students in the Mechanical Engineering Department

JEE Advanced: Ranked **2969** among *225 thousand* eligible candidates

JEE Mains: Ranked **2043** among *1.1 million* candidates

PROJECTS

Portfolio Creator

DevClub, IIT Delhi

- Designed a web app to enable IIT Delhi students to *register, create and share* their own online portfolio website
- Incorporated *React JS along with Google material design* to create an elegant user interface
- Ensured smooth data handling with a *systematic control flow* of user data

Holonomic Mecanum Wheel Robot

Robotics Club, IIT Delhi

- Designed and manufactured 4 Wheeled Mecanum semi-autonomous drive to compete in DD-Robocon 2019
- Implemented a picking and throwing mechanism for an irregular curvilinear object with a throwing range of 2 metres
- Incorporated feed-backs from Encoders, Ultrasonic Sensors and IMU to provide effective control and navigation

4 Legged Minitaur Robot

Robotics Club, IIT Delhi

- Designed and Manufactured an autonomous robot similar to Stanford's Doggo Robot to compete in DD-Robocon 2019
- Used a Raspberry Pi to control Dynamixel Motors which were guided by Torque Sensing Algorithms developed in Python

Symbolic Differentiator

Prof Subhashis Banerjee, IIT Delhi

- Worked on a symbolic differentiator that could parse the input and return its derivative.
- The program was modular, supported a wide variety of mathematical operations, and could be extended further.

Emergency Buzzer Circuit

Prof. M. Veerachari, IIT Delhi

- Created a buzzer circuit which could be integrated in various everyday applications

TECHNICAL STRENGTHS

Web Development

HTML, CSS, Javascript, JQuery, SQL, PHP, Express, Node JS, React JS, Git

Programming Languages

Python, C++, SML

Software & Tools

MS Office, Autodesk Inventor, Autodesk Fusion, Blender, Adobe Illustrator

EXTRA CURRICULAR ACTIVITIES

Techfest IIT Bombay — *Line Follower Maze Solving Robot*

- Designed a differential drive line following robot using Arduino Mega Microcontroller
- Implemented Graph Theory and modified Dijkstra's Algorithm to solve and find the shortest path in the line maze

Robocon 2019 — *Integral part of the team that represented IIT Delhi*

- Competed at a **National Level** with teams from various colleges all across India
- Designed two robots (autonomous and semi-autonomous) that worked together to solve a given problem statement

POSITIONS OF RESPONSIBILITY

Aquatics Captain - Shivalik Hostel — *Incharge of all Aquatic Events on behalf of Shivalik House*

- Successfully led the 11 member Shivalik Aquatics Contingent in the Inter Hostel Aquatics Championship

Public Relations Executive - Mechanical Engineering Society (MES) — *Integral part of the society that oversees events pertaining to the Mechanical Engineering Department*

- Part of the team that organised the Fresher's Party for the 2019 Entry students of Mechanical Engineering department
- Responsible for maintaining the MES website

Web Executive, Robotics Club

Responsible for maintaining the Robotics Club website

Developer - DevClub

A vital member of IIT Delhi's Software Development Club