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 differentiatior 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