ARYAN GUPTA

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Mechanical Engineering	Indian Institute of Technology, Delhi	9.118
2018	CBSE	Delhi Public School R.K. Puram	96.4%
2016	CBSE	Delhi Public School R.K. Puram	10

SCHOLASTIC ACHIEVEMENTS

- **JEE Advanced 2018:** Ranked 2969 amongst *225 thousand* eligible candidates
- **JEE Mains 2018:** Ranked 2043 amongst *1.2 million* candidates
- **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
- **Certification of Merit** : *Amongst the top 7 percentile of students from 2018 entry batch in the 2nd Semester of 2018-2019*

PROJECTS

- **Portfolio Creator** (June, 2019 - Ongoing) : *DevClub Project*
  - 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** (January, 2019 - June, 2019): *Robotics Club Project*
  - 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** (January, 2019 - June, 2019) : *Robotics Club Project*
  - 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** (COL 100 Course Project) : *under Prof. Subhashis Bannerjee, 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** (ELL 100 Course Project) : *under Prof. M. Veerachari, IIT Delhi*
  - Created a buzzer circuit which could be integrated in various everyday applications

TECHNICAL SKILLS

- **Web Development** : *HTML, CSS, Javascript, Jquery, SQL, PHP, Express, Node JS, React JS, Git*
- **Programming** : *C++, Python*
- **Graphic Design / 3D Modelling** : *Autodesk Inventor, Autodesk Fusion, Blender, Adobe Illustrator*

EXTRA CURRICULAR ACTIVITIES

- **Techfest, IIT Bombay** (November, 2018 - December, 2018) : *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** (January, 2019 - June, 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** (July, 2019 - Present): *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)** (August, 2019 - Present): *Integral part of the society that oversees events pertaining to the Mechanical Engineering Department*
  - Responsible for maintaining the MES website
  - Part of the team that organised the Fresher's Party for the 2019 Entry students of Mechanical Engineering department
- **Web Executive, Robotics Club** (August, 2019 - Ongoing) : *Responsible for maintaining the Robotics Club website*
- **Developer - DevClub** (March, 2019 - Present): *A vital member of IIT Delhi's Software Development Club*

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IIT COURSE

Degree	Institute	GPA
B.Tech in Mechanical Engineering	Indian Institute of Technology, Delhi	9.118

QUALIFYING EXAM

• **Joint Entrance Examination (JEE) Advanced Rank:** 2969 (GE)

COURSES DONE

Intro. To Computer Science, Intro. To Electrical Engg., Product Realization By Manf., Calculus, Linear Algebra & Diffe. Equa.