-- Students' Gymkhana Annual Awards --

**Institute Technical Council**

Indian Institute of Technology, Bombay

Application Form for Institute Technical Awards 2018-19

**Part 1: Student details**

1. Name: Anshul Gupta

2. Roll Number: 18D100005

3. Email ID: anshulg825@gmail.com

4. Contact Number: 8766540312

5. Academic Programme: Mechanical Engineering (Dual Degree)

6. Award applied for: Freshmen of the Year

**Part 2: Technical performance details**

1. INTRA-COLLEGE PARTICIPATION AND SUCCESS

* **XLR8-2018** (Electronics and Robotics Club, IITB)
* Made a bluetooth controlled vehicle capable of doing basic tasks like climbing,hitting etc.
* **RC Plane 2018** (AeroModelling Club,IITB)
* Made a remote controlled Plane capable of doing basic flight maneuvers.
* **Cozmo Clench 2018** (Techfest 2018)
* Made a wired controlled gripper-based robot capable of lifting cubes and placing them into designated area.
* **Arduino Hackathon** (Electronics and Robotics Club, IITB)
* Made Home Automation and Home Security Project using Arduino.

II) INTER-COLLEGE PARTICIPATION AND SUCCESS

* **UMIC-IITB** (ASME STUDENT DESIGN COMPITITION) (Oct 2018 – Present)
* Was involved with the team in the development of a Robot, capable of picking and placing balls of different diameters (ranging from ping pong to basketball).
* Our team represented IIT Bombay at Vellore Institute of Technology and won the competition against 24 teams which included two more IIT's and two NIT's, and a team from Hong Kong PolyU and got qualified to represent **INDIA** in SDC World Final held in USA.
* **Implementations as a part of electrical sub-division of ASME-UMIC**
* Ideation and Implementation of electrical parts and connections
* Implemented mechanism to operate various Servo motors at the same time.
* Rectified the control systems of robot for better handling and stability