

-- 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

I. 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 COMPETITION) (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