

# Shivank Garg

Second year Undergraduate  
Department of Electrical Engineering

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## EDUCATIONAL QUALIFICATIONS

Year	Degree	Institute	CPI / %
2020*	B.Tech. in Electrical Engineering	Indian Institute of Technology, Kanpur	7.9/10
2016	Class XII, CBSE	Emmanuel Mission School	93.6%
2014	Class X, CBSE	St. Francis School	10/10

## ACADEMIC ACHIEVEMENTS

- Secured **All India Rank 729** in Joint Entrance Examination(JEE Advanced) 2016 among 200,000 students
- Secured **All India Rank 2190** in Joint Entrance Examination(JEE MAINS) 2016 among 1,600,000 students

## TECHNICAL SKILLS

**Languages** - C, C++, Python, HTML, CSS.

**Operating Systems** - Windows, Linux Systems.

**Software and Tools** - MATLAB, Fusion360, L<sup>A</sup>T<sub>E</sub>X, Git, MS Office.

**Web Development** - HTML, CSS, Google mdl

**Hardware** - Arduino, Various sensors and Communication Modules.

## TECHNICAL PROJECTS

- Prosthetic Arm** May'17 - July'17  
*Robotics Club, Science and Technology Council, IITK*
  - Project aimed at designing and controlling an artificial gripper (3-D printed) based on concept of prosthesis.
  - Designed the hand on Fusion360 and controlled it using Servos and Strings like tendons do in humans.
  - Implemented flex sensors and Bluetooth modules for sending signals to 3D printed gripper.
  - This Project represented IITK in **Inter-IIT Tech Meet 2018** in Engineer's Conclave.
  - Awarded with **Best Social Project**, 2017 amongst the various summer projects.
- Automatic Crossbow** Aug'17 - Nov'17  
*Mentored by Prof. Shobhit Omar*
  - A Technical Art project aimed at designing and fabricating a crossbow which shoots arrows automatically.
  - Manufactured it using metallurgical processes and led the team of five.
  - Uses the rotary motion to shoot the arrows, and reloading is similar to that of earlier machine guns.

## RELEVANT COURSES

EE200-Signals, Systems and Networks	PHY103-Electrodynamics	ESC101-Introduction to Computing
MTH102A-Linear Algebra and ODE	ESC201-Introduction to Electronics	MSO201A* - Probability and Statistics
EE250A* - Control System Analysis	EE210A*-Micro-Electronics-1	ESO207-Data Structures and Algorithms

\* represents ongoing courses

## POSITIONS OF RESPONSIBILITY

- Secretary, Robotics Club, IIT Kanpur** Apr'17 - Current
  - Promoted Robotics as a hobby in IITK community through variety of workshops, competitions, hackathons.
  - Mentored and assisted many first year students to start their journey as a robotics enthusiast.
- Election Officer, General Election'17**
  - Worked in three tier team for successful conduction of free and fair elections in IITK community.

## SOCIAL INITIATIVES

- PRAYAS** Dec'16 - Aug'17  
*An IIT Kanpur initiative*
  - Aimed to make quality education accessible to those who are deprived of it.
  - To inculcate values and provide moral education to the students.
- Member of National Cadet Corps(NCC)** Aug'16 - Apr'17  
*2 UP CTR*
  - Aimed at creating a human resource of Organized, Trained and Motivated youth.
  - To Develop Character, Comradeship, Discipline, Leadership, Secular Outlook, Spirit of Adventure, and Ideals of Selfless Service amongst the Youth of the Country.