

# SHASHANK BHUSHAN

Third Year Undergraduate  
Mechanical Engineering  
Email ID: [skbhu@iitk.ac.in](mailto:skbhu@iitk.ac.in)  
Mobile No: +91-7754915990  
Address: Room No. 276, Hall of Residence 3, IIT Kanpur, Uttar Pradesh



## INTERESTS

Startups & Entrepreneurship, Android Development, Graphics Designing, Data Structures & Algorithms

## EDUCATION

Year	Degree	Institute	CPI/%
2017(expected)	Bachelor of Technology	Indian Institute of Technology Kanpur	5.7*/10.0
2012	All India Senior School Certificate Examination (CBSE)	Shiv Jyoti , Kota	73.4 %
2010	Indian Certificate of Secondary Education (ICSE)	Don Bosco Academy, Patna	82 %

\* - at the end of fourth semester

## ACADEMIC ACHIEVEMENTS

- Secured **All India Rank 3429** in JEE Advanced out of more than 500,000 aspirants. **2013**
- Secured a **score of 265/360** in JEE Mains given by around 1,300,000 students. **2013**
- Secured a **score of 382/450** in BITS Entrance Exam. **2013**

## WORK EXPERIENCE

**CRANKOUT TECH PVT LTD | Android App Development Intern** (May 2015-Jul 2015)

**Book Any Gym, Studio, Sports venue or personal Health Coach in Mumbai.(CrankOut App)**

- Created a minimalistic flow and paid special attention to user experience , made booking easy enough so that any person can fluently use all the services .
- Implemented Session Management, Cart Management and Material Design guidelines.

## PROJECTS

**AURAPLAY - AN ARTICULATED MECHANICAL ROBOTIC ARM | Electronics Club Project** (May 2014-Jun 2014)

- Making a Fluid Interface controlled by laser pen which is a projected screen. ([Project Video Link](#))
- Using OpenCV to track screen through contour detection and mouse handling trough laser . Using this mouse you can move screen any place on a table top.
- Servo motors and Arduino was used to make the 2DOF movement of the robotic arm using wiring pi libraries.

**TA202 | Course Project under Prof. V.K. Jain** (Jan 2015-Apr 2015)

- A Fully Functional Automatic wheat plant sowing machine was made by a group of 6 people and was awarded as the **best project** from the whole batch of 440 students.
- The mechanism was designed such that the whole machine could be driven from a single point's motion . ([Project Video Link](#))
- Using Matlab stimulation to calculated the trajectory of the end points in a 4 bar mechanism to make picking effective.

**TA201 | Course Project under Prof. Shashank Shekhar** (Aug 2014-Nov 2014)

- Made a model to demonstrate the Perpetual Motion , and hence demonstrate the first and second law of thermodynamics.
- Using Manufacturing processes with careful precision like welding , molding etc to make a wheels with attached bars to it.

**LINE FOLLOWING ROBOT | A seven sensor PID line Following bot | Takneek ( IITK Intra college Techfest)** (Aug 2014)

- Made a black line following robot using a seven sensor array , and working with arduino to programme it to implement Proportional – Integral – Derivative(PID) for smooth following.

## TECHNICAL SKILLS

- Programming Languages :** C, C++, JavaScript
- Web Development :** HTML, CSS, Django, Node.js, Bootstrap.css, MongoDB
- Utilities & Softwares :** Git, Make, Bash, Postman, Microsoft Excel, Microsoft PowerPoint
- Operating Systems :** Fedora, Ubuntu, Mac OS, Windows
- Design Software :** Sketch(Mac) , Auto-cad , Solidworks Autodesk Inventor , Adobe Illustrator ,Adobe Photoshop

## RELEVANT COURSEWORK

**Mechanical Engg. :** Engineering Design and Graphics,Nature and Properties of Material, Fluid Mechanics, Graphical Engineering, Manufacturing Processes, Dynamics\* , Mechanics Of Solids\*, Energy Systems\*  
Manufacturing Science and Technology\* ,

**Others :** Fundamentals of Computing, Complex Variables , Introduction to Electrical Engineering, Partial Differential Equations, Introduction to Electronics, Flight Mechanics\*

(\* - ongoing)

## **LEADERSHIP SKILLS**

### **CULTURAL SECRETARY | Hall Executive Committee, Hall 3**

**(Jul 2014-Apr 2015)**

- Was part of a team of 11 people who managed all the Hall level Activities and supervised inter as well as intra-hall events.
- Won the Galaxy trophy for the 7th time in a row which is IITK's inter-hall cultural Festival.
- Invented a programme through which every new resident of the hall could get full exposure to cultural activities.

### **COORDINATOR – INFORMALS , TECHKRITI'15 ( Technical and Entrepreneurship Festival of IIT Kanpur )**

**(Mar 2015)**

- Organised and Invented Ideas for Fun Games which was open to all present in the Techkriti.
- As well as secured the online points portal from being hacked.

### **COORDINATOR – DESIGN EVENTS , TECHKRITI'15**

**(Mar 2015)**

- Conducted the competitions of Techkriti grand prix and Concatenate in our technical fest which included bringing participations from over India
- Emphasised on post festival logistics management reduce the lead time from 5 months to 2 months.

### **SECRETARY ELEVATOR PITCH – BUISENESS EVENTS , TECHKRITI'14**

**(Mar 2014)**

- Managed the Operations of event and Conducted it and won a price for participation as an audience.

## **HOBBIES**

Staying Updated with Technical Entrepreneur Events, Traveling, Management of Events, Cooking