SHASHANK BHUSHAN

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Mechanical Engineering
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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	6.7*/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	83 %

* - at the end of fourth semester

ACADEMIC ACHIEVEMENTS

- Secured **All India Rank 3413** 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 Full Stack Developer Intern   **(May '15-Jul '15)**
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 Summer Project   **(May '14-Jun '14)**

- 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 u 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   **(Jan '15-Apr '15)**

- 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 440 students. Project Video Link
- 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   **(Aug '14-Nov '14)**

- 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 '14)**

- 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 Solidis*, Energy System*
Manufacturing Science and Technology* ,   **(* - ongoing)**
Others   : Fundamental of Computing, Complex Variable, Introduction to Electrical Engineering, Partial Differential Equation, Introduction to Electronics, Flight Mechanics*

LEADERSHIP SKILLS

CULTURAL SECRETARY | Hall Executive Committee, Hall 3 (Jul '14-Apr '15)
- Was part of a team of 11 people who managed all the Hall level Activities and Supervied Inter as well as interhall events.
- Won the Galaxy trophy 7th time in a row which is IITK intra cultural Festival.
- Invented a programe through which every new residents of hall could get full exposer to there cultural talent.

COORDINATOR – INFORMALS , TECHKRITI'15 .(Technical and Entrepreneurship Festival of IIT Kanpur) (Jul '14-Apr '15)
- Organised and Invented Ideas for Fun Games which was open to all present in the TEchkriti fest.
- As well as secured the online points portal from being hacked.

COORDINATOR – DESIGN EVENTS , TECHKRITI'15 (Jul '14-Apr '15)
- Conducted the Competitions Of Techkriti grand prix and Concantenate in our technicla fest which included bringing partications 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 (Jul '14-Apr '15)
- 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