

# Sahil Dhull

3rd Year Undergraduate  
Department of Computer Science and Engineering

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## Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2016 - Present	B.Tech	Indian Institute of Technology, Kanpur	8.65/10
2016	CBSE(XII)	Abhinav Public School, New Delhi	97.4%
2014	CBSE(X)	DAV Public School, Kurukshetra	10/10

## Scholastic Achievements

- Secured **AIR 230** in **JEE Advanced 2016** among the 2 Lakh shortlisted candidates.
- Secured **AIR 27** in **JEE Mains 2016** among the 15 Lakh candidates.
- Cleared National Standard Examination in Physics (**NSEP**), National Standard Examination in Astronomy (**NSEA**) conducted by IAPT (Indian Association of Physics Teachers)
- Awarded **KVPY 2014** fellowship, securing **AIR 46** (out of a total of about 40,000 students).
- Participated in **North-Indian Science Fair 2012** at National Science Center, New Delhi.
- Participated in **CBSE Regional Exhibition 2012**.
- Awarded **National Talent Search Scholarship 2012** by National Council of Educational Research and Training.
- Secured **1st** position in **State level Essay Writing Competition** by Govt. of Haryana in **2010**.

## Projects

- Fusion of Inertial Sensing IoT Devices** | CS664A [IoT System Design] (July'18)  
**Prof. Amey Karkare**, Department of Computer Science and Engineering
  - Learnt about Hardware and Software aspects of OBLU (Multi IMU inertial sensing device).
  - Designed and Implemented a Fusion algorithm on Dual Foot-mounted Inertial Sensors data to reduce Systematic Heading Drift resulting in a more precise navigation system.
  - Plotted Real-time graphs showing Raw and Corrected trajectories to find out Drift and Distance Errors in both navigation systems.
- SAE IIT Kanpur** | Team Member (Jan'17- Feb'18)  
**Prof. Shantanu De**, Department of Mechanical Engineering
  - Designed and fabricated a Formula race car (F-18) for Formula Bharat, a national collegiate design challenge.
  - Secured 9<sup>th</sup> position in Design Event, 6<sup>th</sup> in Business Plan and 15<sup>th</sup> position among 55 teams at Formula Bharat 2018.
  - Part of Powertrain Subsystem (Engine + Drivetrain).
  - Designed the sprocket for F-18 vehicle on Solidworks.
  - Simulated and optimized the sprocket design on ANSYS for weight minimization.
  - Part of Cost Report team of F-18 vehicle for Formula Bharat 2018.

## Technical Skills

- Programming:** C, C++, Verilog(HDL), Shell Scripting ; Familiar: Python, HTML, PHP, Javascript
- Familiar Tools:** Vim, SPIM, Git, Octave, GNUPlot, R, L<sup>A</sup>T<sub>E</sub>X, GPU programming with CUDA
- Softwares:** ANSYS (Structural), AutoCAD Fusion, Solidworks, Autodesk Inventor

## Positions of Responsibility

- Marketing Executive** | **SAE IIT Kanpur** (Jun'17)
  - Prepared a database of possible investors and contacted various Multi-national firms for sponsorship.

## Relevant Courses

Introduction to Machine Learning*	Algorithms-II*	Operating Systems*
IoT System Design	Data Structure and Algorithms	Computer Organization
Probability and Statistics	Computing Laboratory	Introduction to Electronics
Discrete Mathematics	Logic in Computer Science	Linear Algebra and ODE

\*ongoing courses

## Extra-Curricular Activities

- Bagged 3rd position as pool (Hall-3) in Robotricks, Takneek'16 (Inter-hall Technical Competition):  
Built a robot to preform simple tasks like lifting blocks and detecting coloured strips.
- Took part in Dance Competition in Galaxy(Inter-hall Cultural Event)-2017.
- Played Lawn Tennis as Compulsory Physical Activity.
- Participation at State Level Swimming Competition in Haryana, Category - Under 14 boys.