

AYUSH SINHA

3rd year Undergraduate
Mechanical Engineering
Indian Institute of Technology, Kanpur, INDIA

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EDUCATION

Qualification	Institute	Year	Performance
BTech in Mechanical Engineering	Indian Institute of Technology Kanpur	2013-2017	CPI 9.0 till IVth semester
• Semester I	Indian Institute of Technology Kanpur	2013	9.1
• Semester II	Indian Institute of Technology Kanpur	2014	10
• Semester III	Indian Institute of Technology Kanpur	2014	8.2
• Semester IV	Indian Institute of Technology Kanpur	2015	8.9
Intermediate (12th CBSE)	Delhi Public School, Indira Nagar, Lucknow	2013	92.4%
High School (10th CBSE)	Delhi Public School, Indira Nagar, Lucknow	2011	CGPA 10

ACADEMIC ACHIEVEMENTS

- Received **Academic Excellence Award** for 2013-14 at Indian Institute of Technology Kanpur
- Secured **All India Rank 63** in U.P. State Engineering Entrance Examination 2013
- Awarded Certificate of Merit for being among the **Top 0.1%** of successful candidates of All India Sr. Secondary Certificate Examination 2013 in Physics by CBSE
- Awarded Gold Medal for securing **City Rank 1** and **State Rank 8** in Science Olympiad Foundation's 14th National Science Olympiad
- Awarded Gold Medal for securing **All India Rank 41** in National Level Science Talent Search Examination 2012
- Awarded Certificate of Merit for obtaining **highest grade (A1) in all subjects** in AISSE 2011 by CBSE
- Awarded **The Hindustan Pratibha Samman Medal, Amul Vidya Shree Award** and **DPS Merit Scholar Trophy** for exceptional performance in AISSE 2010-11
- Received **Scholar Badges** by Delhi Public School for outstanding academic performance in school

KEY COURSES TAKEN

Core		Breadth	
ME222	Nature and Properties of Materials	ESC101	Fundamentals of Computing
ME231	Fluid Mechanics	ESC201	Introduction to Electronics
ME251	Engineering Design and Graphics	ESO203	Introduction to Electrical Engineering
ESO201	Thermodynamics	MSO202	Complex Variables
ESO202	Mechanics of Solids	MSO203	Partial Differential Equations
ESO209	Dynamics	MTH102	Matrix and Determinants/ODE
TA201/202	Manufacturing Processes	PHY102	Introduction to Mechanics

TECHNICAL SKILLS

- Attended **Summer School 2014 organized by Computer Science Engineering Department** of IIT Kanpur and secured **'A' Grade** in all 5 courses
(Basic C++, Advanced C++, Web Development, Introduction to Data Structures and Android Development)
- Other Tools Used:** Autodesk AutoCAD, Autodesk Inventor, Matlab, MS Office

PROJECTS / INTERNSHIPS

▪ TATA MOTORS LIMITED LUCKNOW

SUMMER INTERN

19TH MAY – 16TH JUNE 2015

- **Problem resolution** after proper **Root Cause Analysis** for specified part
- **Implementation** of Quality gates at supplier's end
- Studied the functioning of entire plant and assembly operations at TML as well as **manufacturing processes** at supplier's end

▪ ROBOCON 2015 – ROBOMINTON (Advisor Prof. Bhaskar Dasgupta, Centre for Mechatronics IITK)

SENIOR MEMBER

SEPTEMBER 2014 – MARCH 2015

- Worked with a **team comprising of 30 students** from different engineering disciplines and year of study
- **Designed** and **built two badminton playing robots** for doubles match on an actual size court
- Finished **eleventh in eighty-four teams** from all over India
- **Felicitated by the Science and Technology Council IITK** for the same

▪ AUTOMATIC CAR PARKING

TA202A PROJECT

JANUARY 2015 – APRIL 2015

- **Designed** and **manufactured** a functional model of an automatic car parking using gear systems
- Received an **'A' grade** in the course

▪ UNICEF LOGO

TA201A PROJECT

AUGUST 2014 – NOVEMBER 2014

- **Manufactured** a 3D UNICEF logo
- Learnt and used many **metallurgical manufacturing** processes such as casting, welding etc.

EXTRA CURRICULAR ACTIVITIES / INTERESTS

- 3D Designing and CAD modelling using Autodesk Inventor
- Reading fiction as well as technical articles over net
- Participating in various college informal competitions and games such as Crypto and Treasure Hunt
- Participated in Inter-hall competitions such as Stop-motion Film making and Gear Loose
- Social Service Program/Awareness program for underprivileged kids

EXECUTIVE SYNOPSIS

- Excellent academic background
- Innovative in thought and solutions
- Proactive approach
- A keen observer, driven to succeed and excel