

Mohd Abbas Zaidi

Pre-Final Year, Indian Institute of Technology Kanpur(IITk)

Major:Electrical Engineering

Minor:Artificial Intelligence

[IITk Homepage](#)

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ACADEMIC DETAILS

Educational Qualification	Institute/Board	Year	CPI/%
Intermediate - ISC	CMS, Gomti Nagar,Lucknow	April'14	96.50
HighSchool - ICSE	Anand Bhawan School, Barabanki	April'12	92.40

International Exposure

- Selected for internship at **Samsung Electronics, South Korea** for Summer'18

Scholastic Achievements

- Recipient of the Summer Undergraduate Research & Undergraduate Excellence (**SURGE**) at IIT Kanpur among applicants from various countries
- Nominated for OPJEMS Scholarship by the Institute based on Academic Performance for the year 2016-17
- Recipient of the **Exhicon Tehalka Today Award** for the year 2012
- Secured an **All India Rank 1657** in IIT-JEE Advanced 2015
- Secured an **All India Rank 414** in IIT-JEE Mains 2015 among over 1.2 million candidates
- Awarded by INSPIRE scholarship by Govt of India (awarded to **top 1% students** on a national level in Indian School Certificate class 12 results)
- Departmental rank 1** in Electrical Engineering among over 120 students at IIT Kanpur
- A*(Outstanding)** grade in nine courses including all MTH and ESC courses, and two MSO courses at IITk
- Recipient of the Academic Excellence Award for the session 2015-16 at IIT Kanpur**
- 1st Rank** in PDE course **2nd rank** in **Electronics** course amongst over 400 students of various departments
- Placed in **top** category in Bal-Ratna Khoj quiz in General Studies 2012
- Cerifications for **Academic Excellence** and **Extra Study** at Anand Bhawan School, Barabanki

PROJECTS

- STTC + Total Variation based Robust Image Reconstruction**(under Prof. Aditya Jagannatham) to enhance existing Image & Video Wireless Communication [Report \[July'17\]](#)
 - Developing a joint algorithm using two criterion, trellis based decoding and total variation regularization
 - Coming up with a single **novel** joint decoder for both the algorithms
 - Established that the quality of media reconstructed via the joint algorithm is much better than that by any one of them
- Convolved Neural Network based Real Time Sentiment Analysis**(under Prof. Purushottam Kar) [Demo](#)
 - Detects the emotion of the user based on movement of facial muscles taking in webcam feed
 - Achieved an accuracy of over 70% from a set of 6 different emotions in real time
 - Employed Lenet, Mobile Nets and Alex Net for the task, finally AlexNet was used
- Automated Standing Wheelchair** (under Prof Rajiv Shekhar)

- Worked as **Director, Technical** in the mock startup for the project during 3rd semester
- Compiled Business Plan, Marketing brochure and Costing reports of the startup
- Employed **efficient and innovative mechanism** to provide affordable mobility solutions
- **Oblique Axis Ceiling Fan** (*under Prof. Sounak Choudhary*)
 - hands on experience of various machining processes like lathe, milling, drilling etc
 - Providing an increased **efficiency** at similar power consumption for ceiling fan

TECHNICAL SKILLS

- **Programming/Scripting Languages:** C++, Java, C, Matlab, Python
- **Tools/Software Packages used:** Matlab, Arduino IDE, Processing, \LaTeX , Adobe Photoshop, Unity 3d, Android Studio, AutoCAD, Microcap Simulator
- **Operating Systems used:** Windows, Ubuntu, Mac

Relevant Coursework

Digital Signal Processing*	Introduction to Machine Learning*	Power Systems*
Data Structures and Algorithm	Probability & Statistics	Linear Algebra
Introduction to Economics	Control Systems	Complex Analysis
Signals & Systems	Introduction to Electronics	Partial differential equations
Introduction to Biology	Multivariate Calculus	Introduction to Computing
Microelectronics	Principles of Communication*	Introductory Sociology
		<small>* To be completed in current semester</small>

Positions of Responsibility

- **Core Team Operations** (*Counselling Service*) (Feb'17-)
 - to lead a team of 138 Student Guides for smooth conduction of a 6-day Orientation Programme for over 800 freshers of UG Batch'17 to ensure a smooth transition into the campus life
 - to organise sessions aimed at strengthening teamwork and interaction among students To conduct Personality Enhancement Classes to help the students develop good communication skills
- **Company Coordinator** (*Student Placement Office*) (Aug'16-Apr'17)
 - **Coordinated** the placement, internship tests and interview processes for a number of recruiters
- **Academic Mentor** (*Counselling Service*) (Apr'16-Apr'17)
 - To **Mentor** a group of freshmen in a course on programming
 - To conduct doubt clearing sessions and classes at **Institute** level and **Hostel** level
- **Senior Executive** (*Public Relations, Antaragni*) (May'16-Oct'16)
 - Performed shortlisting and database management of dignitaries and artist for a plethora of events
 - Co-ordinated with an excellent team of executives for organising events
- **Student Guide** (*Counselling Service*) (July'16-)
 - **Mentoring** a group of 8 students throughout their stay at the campus
 - Provided emotional assistance to freshmen students by acting as a link between the students and the professional counsellors

Extra-Curricular Activities

- **Sports**
 - **Winner**, Kho-Kho intra-murals'15-16, playing alongside national level players, IIT Kanpur

- **Winner**, Inter-House Basketball 2010, **Runner-up**, 2011, High school
- Other Sports-Skating, Cricket, Badminton
- **Awards**
 - Recipient of the **Fatima Society** award for academic excellence
 - **Best Student Award**, High School, among over 80 students
- **Literary Events**
 - **Bagged** 1st prize at District level **Essay Senior** and **Just a Minute** Competition, Barabanki, India
 - **Runner-up**, Fresher's Poem Writing Competition, IIT Kanpur
- **Electronics** (*Electromania in Techkriti'16-national level intercollege technical fest*)
 - Developed a ball brick breakout game using **Arduino** working with in a team of four
- **Winter School'15** (*Electronics Club-IIT Kanpur*)
 - Worked on a number of electronics devices, sensors and Microprocessors
 - Developed innovative mini-projects and games using a plethora of devices
- **Photography**
 - **Bagged** 1st prize at Fresher's Selfie Competition, IIT Kanpur
- **Volunteered for**
 - **Child Welfare activity** of Search Foundation during November 2008
 - Fundraiser for **Cancer Aid Society** during 2006