

# Mohd Abbas Zaidi

Third Year, Indian Institute of Technology, Kanpur  
Major: Electrical Engineering  
Minor: Artificial Intelligence, Computer Science

[mzaidi@iitk.ac.in](mailto:mzaidi@iitk.ac.in)  
[mzaidi59@gmail.com](mailto:mzaidi59@gmail.com)  
Contact: +[91] 8948 267 081

## Academic Details

Educational Qualification	Institute/Board	Year	Performance
B.Tech, <i>Electrical Engineering</i>	IIT Kanpur	July'15 - '19	10.0/10.0
Intermediate - ISC	CMS, Gomti Nagar, Lucknow	April'14	96.50%
High School - ICSE	Anand Bhawan School, Barabanki	April'12	92.40%

## Scholastic Achievements

- Selected for the Summer Undergraduate Research & Undergraduate Excellence (SURGE) program at IIT Kanpur
- Departmental rank 1** among over 140 students in Electrical Engineering at IIT Kanpur
- A\*(Outstanding)** grade in **nine courses** and recipient of **Academic Excellence Award** at IIT Kanpur
- Secured an All India Rank **414** in JEE Mains 2015 & 1657 in JEE-Advanced among 1.2 million candidates

## Projects

- STTC plus Total Variation based Robust Image Reconstruction** to enhance existing Image & Video Wireless Communication  
*Prof. Aditya Jagannatham | May'17- July'17*
  - Developed a **joint algorithm** using two criterion, trellis based decoding and total variation regularization
  - Developed a **variant of Viterbi algorithm** as a joint decoder for both the algorithms for image reconstruction
  - Optimised **relative weightages** to be given to different criterion to achieve best possible image quality
  - Established the **superiority of joint algorithm** over existing algorithms using the PSNR of images
- Automated Standing Wheelchair**  
*Prof. Rajiv Shekhar | August'16-November'16*
  - Worked as **Director, Technical** in the mock startup for the project to provide mobility solutions
  - Compiled **Business Plan, Marketing brochure** and **Costing reports** of the mock startup
- Oblique Axis Ceiling Fan**  
*Prof. Sounak Choudhary | January'17- Apr'17*
  - Developed a ceiling fan which **circulates air in a larger volume** at same power input using axis rotation
  - Awarded among the **five best projects** from more than **45 other projects** based on fabrication and design

## 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 Os Sierra

## Relevant Coursework

Digital Signal Processing*	Introduction to Machine Learning*	Power Systems*
Data Structures and Algorithm	Probability & Statistics	Linear Algebra
Microelectronics	Control Systems	Intro to Communication
Signals & Systems	Introduction to Electronics	Partial differential equations
		*Ongoing Courses

## Positions of Responsibility

- Member, Core Team Operations** (*Counselling Service, IIT Kanpur*) *Feb'17- present*
  - Led a team of **136 Student Guides** for smooth conduction of 6-day **Orientation Programme** for over 800 freshers of UG Batch 17 to ensure a smooth transition into the campus life
  - Organized sessions aimed at **strengthening teamwork** and **interaction** among students
  - Conducted **Personality Enhancement Classes** to help the students develop good communication skills
- Company Coordinator** (*Student Placement Office, IIT Kanpur*) *Aug'16-Apr'17*
  - Coordinated the placement, internship tests and interview processes for over 20 recruiters.
- Academic Mentor** (*Counselling Service, IIT Kanpur*) *Apr'16-Apr'17*
  - Mentored a group of freshmen in the compulsory programming course with classes at **Institute** and **Hostel** level
- Senior Executive** (*Public Relations, Antaragni*) *May'16-Oct'16*
  - Performed shortlisting and database management of dignitaries and artists for a plethora of events
- Student Guide** (*Counselling Service, IIT Kanpur*) *May'16-Present*
  - Mentoring a group of 8 freshmen from UG 16 batch throughout their stay at the campus