

EDUCATION

2018 - Present	Indian Institute of Technology Kanpur, B.Tech. in Electrical Engineering, CPI : 7.8/10
2016 - 17	The New Green Field Public Academy ,Indore, Class XII, Percentage : 84.2%
2014 - 15	Delhi Public School,Indore Class X, CGPA : 10/10

SKILL-SETS

Programming Language	C/C++, Python, Verilog
Tools and Softwares	MATLAB, LABView, Autodesk Inventor, GNU-Octave, Git, \LaTeX
Hardware	Arduino, Raspberry Pi, Xilinx FPGAs, IMU, WiFi Module (ESP-8266)

EXPERIENCE

May 2019	Wi-TRACK, ELECTRONICS CLUB, IIT KANPUR
Jul. 2019	Summer Project, Advisor : PROF. A.R HARISH(DEPT. OF ELECTRICAL ENGINEERING) <ul style="list-style-type: none"> > Implemented a Frequency Modulated Carrier Wave RADAR capable of tracking human beings over a distance of 3m in presence of a solid obstacle between the walking human and the antenna pair. > Developed hardware subsystem consisting of a sweep generator, signal generator, frequency mixer and oscilloscope, and integrated it with the software stack using serial protocol for data logging (PyVISA). > Won the best Research & Development Project award in the Science & Technology Council. <div>Signal Processing</div> <div>Software-Defined Radio (NI-USRP)</div> <div>LABView</div>
May 2019	Electromania, IIT KANPUR
Jun. 2019	Takneek 2018, Inter-Hostel Competition : SCIENCE & TECHNOLOGY COUNCIL <ul style="list-style-type: none"> > Designed a bare-metal gimbal system by estimating the real-time orientation by Inertial Measurement Unit(IMU - MPU6050) & remotely measured the error in real-time using lasers diode and WiFi module. > Extracted noise-free waveform of heartbeat pulses of a human using Near-Infrared Spectroscopy through infrared sensor and error rectifying components like low-pass filters, DC-bias remover. <div>Digital Circuit Designing</div> <div>IoT</div> <div>Arduino</div> <div>ESP-8266 Wifi Module</div> <div>MPU6050 (IMU)</div> <div>Non-programmable ICs</div>

RELEVANT COURSE WORK

Signals, Systems and Networks	Hardware Description Languages for FPGA Design**	Fundamentals Of Computing
Control Systems*	Introduction to Electronics	Partial Differential Equation
Microelectronics*	Introduction to Electrical Engineering	Linear Algebra and Differential Equation

*Ongoing **Audited

POSITION OF RESPONSIBILITY

May 2019	Secretary,
Present	Electronics Club, IIT Kanpur : <ul style="list-style-type: none"> > Promoted Electronics as a hobby in IIT kanpur campus community through a variety of workshops, hackathons, and lectures. > Improved participation and mentored juniors in SnT competitions like Techkriti and Takneek.
May 2019	Student Guide,
Present	Counselling Service, IIT Kanpur : <ul style="list-style-type: none"> > Nurtured a group of fresher students from different majors in both their academics and campus life for their smooth transition into college life. > Volunteered in conduction of 10-day Orientation Program for freshers to familiarise them with IITK.

EXTRACURRICULAR ACTIVITY

- > Participated in State-level Volleyball Championship representing Indore District.
- > Won 1st prize in Street Photography Competition in Inter-IIT Cultural Meet 4.0.

AWARDS AND ACHIEVEMENTS

- > Secured All Indian Rank(AIR) 1671 among 0.5 million students in JEE Advance 2018.
- > Secured All Indian Rank(AIR) 867 among 1.5 million students in JEE Main 2018.