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| in jishant-singh-iitk

Education

Indian Institute of Technology

B.Tech in Electrical Engineering, C.P.I. 6.81/10

July 2014 - PRESENT

KANPUR, INDIA

D.A.V. Sr. Secondary Public School

HIGHER SECONDARY EDUCATION, Marks 91.4%

MANSA, INDIA

April 2012 - March 2014

St. Stephens School

SECONDARY EDUCATION, Marks 96%

CHANDIGARH, INDIA April 2008 - March 2012

Scholastic Achievements

- Secured **ALL INDIA RANK 571** in JEE Advanced 2014 among **12 lakh** candidates
- Among top 0.3% students in JEE Mains 2014
- Qualified for round 2 of **KVPY** scholarship exam in SX stream
- · Scored a total of 389 marks in BITSAT 2014

Technical Skills

- Software and Utilities: AutoCAD, Processing IDE, Adobe Premium Pro, Arduino, MATLAB, GNU Octave, Micro-Cap
- Programming Languages: C, JAVA, C++, Python, HTML, CSS, ŁTFX

Projects

EMG: Hand Gesture Recognition

[Documentation]

INDEPENDENT PROJECT, FUNDED BY DEAN OF RESOURCE AND ALUMNI, IIT KANPUR

- · Used InAmp, Sallen key band pass filters, precision rectifier to create differential signal interpreted using MATLAB
- Processed electromyographic signals on M-bed processor using MATLAB's neural network toolbox

Design and Layout of Ripple Carry Adder

Prof. Shafi Qureshi

[Documentation]

- Designed a **VLSI** layout using **180 nm** technology in Mentor Graphics Design Architect
- Optimised the layout for minimum chip area and performed DRC Check and LVS
- Performed PEX analysis and simulated the circuit with parasitics

Mechanical Counter

PROF. NEERAJ SINHA

- · Designed and built a tap counting device that works by purely mechanical means based on gear ratios
- Dials for the counter were designed on CNC and other processes included lathing, drilling and milling

Wireless Switchboard Control

[Documentation]

- Used Arduino Nano to make an IR and bluetooth communication system to control relays
- · Designed and implemented an indigenous logic for coding of IR signals for the transmitter

Shooting Stars

TAKNEEK, IIT KANPUR

- AtMega 32 based game that operated on a LED matrix
- Implemented functions like collision, reset, scoring and different game modes

Positions of Responsibility.

Fresher's Coordinator • Planned and organized various events for freshmen including Fresher's Night, DJ Night and the Drams Eve

- Spearheaded a team of four people to manage the expenditure of INR 75,000
- Co-ordinated between Cultural Council clubs to ensure smooth conduction

COORDINATOR, Chess Club

2016-17

2015-16

- Coordinator of the club for the term 2016-17
- Managed and participated in a rated chess tournament in Nagpur
- Captained IIT Kanpur's chess team in Udghosh for two consecutive years

SECRETARY, Electronics Club

2015-16

- Managed the organization and functioning of the electronics club for the year 2015-16
- · Supervised making of various projects like hand gesture controlled robot, LED matrix game

Extra Curriculars

- Part of the **Chandigarh UT Chess team** for the **Nationals** year 2010-11.
- Listed FIDE Rated 1305 under All India Chess Federation 2015 onwards
- · Participated in Snackdown'15 organized by Codechef

Relevant Courses_

- Data Structures & Algorithms
- Machine Learning(ACA)
- · Probability and Statistics
- · Blockchains and Software Security
- VLSI Design Analog & Digital
- Digital Elec. & Microprocessor Tech.
- · Digital Signal Processing
- · Digital Switching
- Semiconductor Device Modelling