

Anirudh Panigrahi

SECOND YEAR UNDERGRADUATE, ELECTRICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY, DELHI

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Academic Details

Indian Institute of Technology Delhi

B.TECH, ELECTRICAL ENGINEERING

- CGPA: 9.412 — Till 2nd semester

Hauz Khas, Delhi

2018-present

Remal Public School, Rohini

CLASS XII, CBSE

- Percentage: 97.2%

Sector-3, Rohini, Delhi

2018

Bal Bharati Public School, Rohini

CLASS X, CBSE

- CGPA: 10.00

Sector-14, Rohini, Delhi

2016

Scholastic Achievements

- Awarded **IIT Delhi Semester Merit Prize** for being in the **top 7 percentile** in the second semester(Spring-2019) in a batch of **920 students**
- Secured **All India Rank 18** in **Joint Entrance Examination Mains - 2018** among **1.1 million candidates**
- Secured **All India Rank 407** among **210,000 candidates** in **Joint Entrance Examination Advanced - 2018**, the most prestigious engineering entrance examination of India
- Qualified for **Award of KVPY Fellowship - 2016** bestowed by **Department of Science and Technology, Government of India**. Secured **All India Rank 208**

Relevant Courses

Introduction to Electrical Engineering, Introduction to Computer Science, Data Structures and Algorithms*, Digital Electronics*, Circuit Theory*, Signals and Systems*, Linear Algebra, Calculus

* - To be completed by November 2019

Projects

Musical Note Recognition

PROF. ABHISHEK DIXIT, COURSE PROJECT FOR SIGNALS AND SYSTEMS

October 2019 - November 2019

- Worked on recognising the musical notes of an input sound file using digital signal processing
- Analysed the Fast Fourier Transform of a recorded sound file to recognize different sound pulses from various types of music sources(vocal or instrumental) as musical notes

Generating Electricity during walking using a wearable leg-driven energy harvester

PROF. AMIT KUMAR JAIN

Ongoing

- Using mechanical components like bearings, roller clutches, etc. to make a wearable energy harvester driven by leg movements during walking
- Designed the mechanical component of the harvester using AutoDesk Inventor

Job Scheduler for a Project Management platform using various data structures

PROF. SUBODH KUMAR, COURSE PROJECT FOR DATA STRUCTURES AND ALGORITHMS

September 2019 - October 2019

- Implemented data structures like Trie, Red-Black Tree, Maxheap and used them to make a Job scheduler that effectively schedules the execution of jobs in a typical project management platform
- Analysed the update/query times of the above data structures to decide the best possible way to store all the data of the platform for optimum performance of the scheduler

Automated Night Lamp using LDR

PROF. M. VEERACHARY, COURSE PROJECT FOR INTRODUCTION TO ELECTRICAL ENGINEERING

March 2019 - April 2019

- Made an Automated Night Lamp on a breadboard using Light Dependent Resistor, Relay, and an Operational Amplifier(op-amp) used as a voltage comparator
- Used a transistor as a switch which receives the output of the voltage comparator(op-amp) and thus switches the relay depending on the op-amp's output

LHospital - Hospital Management Database

COURSE PROJECT FOR CLASS XII, CBSE

July 2017 - January 2018

- Used Object Oriented Principles extensively in C++ for developing a database for all employees, patients, stock, budget etc. for a typical hospital
- Developed the database heirarchy of different types of hospital employees, including methods to add/remove/update/view employee data, pay salaries
- Worked on designing a text-based user interface that facilitates the operations implemented in the database
- Implemented a user account system for all employees in the hospital, with different access levels for different types of employees
 - Uses a login and an encrypted password
 - Password is stored as a vigenere cipher
- Worked in a team of 3, used Git and GitHub extensively for collaboration

Skills

Languages Python, Java, C, C++, SML

Tools and Technologies Git, Linux, Autodesk Inventor, MATLAB

Co-curricular Activities

- **Academic Mentor** for the course of **Engineering Mechanics** for the freshers batch 2019-20, assisted students in understanding the course better and helped them with their assignments
- Won **3rd place** in **Inter-hostel Freshers Music Video, 2018** among 13 hostels
- Participated in **State level music choir competition** after being placed **first** in **Zonal** and **Inter-zonal** level
- Worked under EUMIND in a **virtual exchange project**; **collaborated with students in Denmark** to share the art and culture of our countries