

# 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** in **Joint Entrance Examination Advanced - 2018** among 210,000 candidates
- 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

Ongoing

- Working on recognising the musical notes of an input sound file using digital signal processing
- Using Fast Fourier Transform of the signal 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 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

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

**Tools and Technologies** Git, Linux, Autodesk Inventor

## Co-curricular Activities

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- **Academic Mentor** for the course of **Engineering Mechanics** for the freshers batch 2019-20
- Won **3rd place** in **Inter-hostel Freshers Music Video, 2018**
- Participated in **State level music choir competition**
- Worked under **EUMIND** in a virtual exchange project; collaborated with students in Denmark to share the art and culture of our countries