

Aksh Chordia

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EDUCATION

IIT JODHPUR

JODHPUR, INDIA

PRE FINAL YEAR B.TECH IN

ELECTRICAL ENGINEERING

Expected May 2021

CGPA 7.8/10 (Upto 4th Sem.)

SAMRAT PUBLIC SCHOOL

CLASS 12 | CBSE

AJMER, INDIA

Year 2017

Percentage: 89.6

ST. STEPHEN'S SCHOOL

CLASS 10 | CBSE

AJMER, INDIA

Year 2015

CGPA 10/10

COURSEWORK

- Physics of Semiconductor Devices
- Basic Electrical Engineering
- Electromagnetic Theory
- Circuit Theory
- Signals And Systems
- Electrical Machines
- Power Systems
- Digital Logic and Design
- Power Electronics*
- Micro-controllers And Microprocessors*
- Analog Electronics*

*Ongoing Courses

SKILLS

PROGRAMMING

- C/C++
- Python
- Matlab
- Arduino IDE

HDL

- Verilog
- Xilinx Petalinux
- Xilinx Vivado

EMBEDDED

- 8051 μ Controller
- Keil μ Vision

UTILITIES

- Proteus ISIS
- GIT • SSH

OTHER TECHNOLOGIES

- Arduino
- IFTTT
- Node MCU
- Raspberry Pi
- Microsoft Azure

EXPERIENCE

TVS MOTORS INDIA | SUMMER INTERN | R&D

MAY 2019 - JULY 2019 | HOSUR, INDIA

- Project: To develop adaptive headlights in 2 wheelers.
- Learned about various types of **Automotive Lighting technologies** in use and proposed a circuitry for the purpose.

TVS MOTORS INDIA | SUMMER INTERN | R&D

MAY 2018 - JULY 2018 | HOSUR, INDIA

- Project: Development of a cooling system for the **lithium-ion battery** pack.
- Identified various types of cooling methods and thermal Controller (**Battery Management System**) designs for the application.

PROJECTS

BTECH PROJECT | VLSI | IoT | FPGA

Video [Youtube](#) | Open Sourced [Github](#)

- Demonstrated **IoT solution for environmental monitoring** using **VLSI** over an **FPGA board**.
- **DIGILENT's ZYBO FPGA** board acted as a bridge between the sensors, screen, and cloud-server.

DISASTER CHAIN | IoT | MICROSOFT AXLE 2019 | MICROSOFT

CODE.FUN.DO++

Video [Youtube](#) | Open-Sourced [Github](#) | News Article [TOI](#)

- A **distributed IoT based solution** for **disaster detection** and early warning systems built for cloud offloading of disaster management.
- It is built using **Raspberry Pi** and **NODE MCU** units, placed at different locations of a building.

SMART TAP | IoT | IICDC: TEXAS INSTRUMENTS' HACKATHON

Aug 2018 - NOV 2018

- An **IoT based system** to acquire the **real-time water-usage data** from taps and showers installed at public locations using **flow, conductivity, TDS and pH sensors**.
- The data acquired to be analyzed and provide feedback to the individuals.

AWARDS AND ACHIEVEMENTS

- 2019 **2nd Runner up, Microsoft AXLE** (Code.Fun.Do++ National) out of 21 teams. Prize money **1 Lach INR** and 5000 USD Azure Grant under AI for good initiative.
- 2018 **Winner, Microsoft Code.Fun.Do++** campus challenge. Won prize money **20K INR**.
- 2018 **Bronze Winner**, Campus Sustainability and Innovation Challenge of Annual **INTER-IIT Tech. Meet**.
- 2018 Reached **3rd** round of India Innovation Challenge 2018, by **Texas Instruments** . for the project "**Smart Tap**."

POSITIONS OF RESPONSIBILITY

- **CAPTAIN** | MAY 2019- Present | **Electronics Club**, IIT Jodhpur.
- **VICE-CAPTAIN** | MAY 2018- APR 2019 | **Electronics Club**, IIT Jodhpur.

EXTRACURRICULARS

- **Class Representative** | B-Tech. Electrical Engineering batch of '21 at IIT Jodhpur.
- Organised Intra College Technical Fest-**Nimble 2019** .
- Conducted various talks on **Home automation, microcontrollers, RF technology**.
- Rank Holder of numerous National Level Science and Cyber **Olympiads** .
- An active member of IIT Jodhpur **football** team.