

Aksh Chordia

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EDUCATION

UNDERGRADUATE
INDIAN INSTITUTE OF TECHNOLOGY,
JODHPUR, INDIA
B.Tech, Electrical Engineering
Expected May 2021
Cum. GPA 7.8

SENIOR SEC. SCHOOL
SAMRAT PUBLIC SCHOOL
AJMER, INDIA
Grad. Year 2017
Percentage: 89.6

SECONDARY SCHOOL
ST. STEPHEN'S SCHOOL
AJMER, INDIA
Grad. Year 2015
Cum. CGPA 10.0/10.0

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 • Node MCU
• Raspberry Pi
• Microsoft Azure

EXPERIENCE

TVS MOTORS INDIA | SUMMER INTERN | R&D
MAY 2019 - PRESENT | HOSUR, INDIA

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

TVS MOTORS INDIA | SUMMER INTERN | R&D
MAY 2018 - JULY 2018 | HOSUR, INDIA

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

PROJECTS

BTECH PROJECT | VLSI | IOT | FPGA

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

- Demonstrated **IOT solutions for environment monitoring using VLSI**.
- **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 build for cloud offloading of disaster management.
- Built using **Raspberry Pi** and **NODE MCU** Units.

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 analysed 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 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

- Organised Intra College Technical Fest- **Nimble 2019**.
- Member of the **football** team at IIT Jodhpur.
- Won numerous **intra-hostel competitions** under Science and Technology Society, IIT Jodhpur.
- Conducted various talks on **Home automation, microcontrollers** etc.