

Pursuing Minor in Computer Science & Engineering

SCHOLASTIC ACHIEVEMENTS

- Secured **99.66%** percentile in **JEE Main** among 1.1 million candidates (2020)
- Secured **99.71%** percentile in **GUJ-CET** among 125 thousand candidates (2020)
- Achieved **7th rank** with a percentile of **99.93%** in **SSC Gujarat Board** (2018)
- Scored **99.75%** percentile in Science Theory in **HSC Gujarat Board** (2020)

EXPERIENCE

Buddingo | Front-end Web Developer

(Summer 2022)

- Developed user interfaces with Angular JS, Bootstrap, HTML5, and CSS3, which improved user satisfaction
- Explored multiple threading, concurrency, design patterns, and their impacts on application concurrency
- Designed and developed dynamic web pages with the help of Angular JS

Digipplus | Math Subject Expert

(Winter 2021)

- Prepared handwritten solutions for Basic JEE mathematics questions and also typeset using \LaTeX

KEY PROJECTS

Jarvis

(2021)

Institute Technical Summer Project (ITSP)

(Institute Technical Council, IIT Bombay)

- Developed a bot using **Arduino IDE**, having manual **control** through our Jarvis Mobile App
- Equipped bot with an **HC-SR04 ultrasonic distance sensor** to **detect an object** in the forward direction
- Future plans include making the bot completely autonomous by Machine Learning design models and AI

Sudoku Solver

(Spring 2022)

Self-project

(Data Structures and Algorithms)

- Developed a **9x9 Sudoku solver** from scratch in **C++** using **backtracking and recursion**
- Program reads input either **from a user** or **from a file** containing the sudoku values and solves the puzzle

Arithmetic Logic Unit Design | Microprocessor

(Spring 2022)

Guide: Prof. Virendra Singh

(Course Project)

- Synthesized **VHDL code** for **16-bit ALU**, capable of carrying out 4 operations: **addition, subtraction, bitwise-NAND, bitwise-XOR**, along with carry and zero flags for two input signals
- Generated **Digital Waveforms** of the output of **RTL simulation in Quartus** for a coded **testbench**

Sequence Generator | Digital Circuits Lab

(Autumn 2021)

Guide: Prof. Maryam Shojaei Baghini

(Course Project)

- Designed a **Sequence Generator** using both the **structural and behavioural** style of **VHDL**
- Modelled a circuit using **flipflops and K-maps** along with boolean algebra to optimise it
- Tested the correctness of the circuit using **Scanchain** by dumping svf file on **CPLD**

POSITIONS OF RESPONSIBILITY

Marketing Coordinator | Entrepreneurship Cell, IIT Bombay

(2021)

Asia's Largest Entrepreneurship promoting student body recognised by NEN, Patronage from UNESCO

- Worked in a **20-membered team**, ideated the deliverables to fit in the online ecosystem
 - Explored strategic associations with high-ranking corporates in the sector assigned
 - Successfully handled over **20+ associates professionals** coming to IIT BOMBAY for E-cell events
 - Maintained databases of over **100+ companies** in different sectors and acted as the point of contact(POC)
 - Approached **30+ companies** over **70+ emails** and contacted **100+ professionals** for sponsorship
 - Ideated multiple publicity campaigns to increase the reach of **Eureka, Asia's largest B-model competition**
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Event Coordinator | Techfest | IIT Bombay

(2021)

Asia's largest science and technological festival with an annual footfall of 175,000+ from colleges all over India

- Promoted betterment of Differently Abled individuals through **100+** awareness sessions by associating with **15+** prominent international NGOs to provide them jobs under the initiative **SAKSHAM**
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KEY COURSES UNDERTAKEN

Electrical	Signal Processing, Digital Systems, Microprocessors, Control Systems, Power Engineering, Analog Circuits, Electronic Devices and Circuits, Communication Systems - I [†] , EM Waves [†]
Labs	Digital Circuits Lab, Microprocessors Lab, Analog Lab, Power Engineering Lab, Control Systems Lab [†] , Electronic Device Lab [†] , Communication Lab [†]
Computer Science	Automata theory, Computer Programming and Utilization
Basic Science	Basics of Electricity Magnetism, Calculus, Linear Algebra, Differential Equations, Complex Analysis, Quantum Physics and Application,

[†] to be completed by November 2022

TECHNICAL SKILLS

Languages(Proficient)	C++, HTML, CSS, Javascript, L ^A T _E X
Languages(Novice)	Python, Java
Frameworks & Libraries	Angular JS, Bootstrap, NumPy, pandas
Software	Git, MATLAB, Ngspice, Quartus, GNU Radio, keil μ vision, AutoCAD, Atmel Flip
Hardware	Arduino, VHDL, 8086 Assembly, Pt-51, Krypton

EXTRACURRICULARS

Technical	• Solved 100+ questions on InterviewBit and 70+ questions on Coding Ninjas on DSA
Social Volunteer	• Completed 80+ hours of volunteering service in the Green Campus Department of National Service Scheme (NSS) , IIT Bombay
Hobbies and Interests	• Competitive Programming • Fascinated in Stock market and attended multiple seminars on Wealth creation by Stock Market • Engaged in listening to audiobooks and have listened to 30+ audiobooks • Learning guitar(Intermediate)
