

Alish Kanani

Pre-final Year (B.Tech)
Electrical Engineering
Indian Institute of Technology (IIT) Jodhpur

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Education

B.TECH. IN ELECTRICAL ENGINEERING

IIT Jodhpur

EXPECTED 2021

CGPA : 8.73/10 (Till 4th Semester)

HIGHER SECONDARY (HSC)

Ashadeep Science Bhavan

2017 | Surat, Gujrat

Percentage: 94.4%

SECONDARY (SSC)

M N J Patel High School

2015 | Surat, Gujrat

Percentage: 87.66%

Relevant Courses

ELECTRICAL CORE

Digital Logic and Design

Microprocessors and Microcontrollers*

Analog Electronics*

Circuit Theory

Communication Systems*

Signals and Systems

(* Ongoing courses)

FUNDAMENTAL MATHEMATICS

Real Analysis and Linear Algebra

Complex Analysis and Differential

Equations

Probability and Statistics

Skills

LANGUAGE

C

Python (Basic)

MATLAB

HDL

Verilog

SOFTWARE

Xilinx (ISE)

Synopsys DC (Basic)

Simulink

Octave

Arduino

Energia

Photoshop (Basic)

Internship

Accuracy Configurable Arithmetic Circuit | IIT Ropar

Research Intern | May 2019 - July 2019 | Guide: Dr Neeraj Goel

- Studied various existing approximate binary adders and multipliers
- Proposed **A Control Unit Based Accuracy Configurable Adder for Error Tolerant Application** and helped in **ACRoM: An Accuracy-Configurable Rounding-Based Multiplier Design** (Under Review)
- Submitted two papers in The 33rd International Conference on VLSI Design and 19th International Conference on Embedded Systems ([VLSID](#))

Projects

Optimisation of 32 bit adders

B.Tech Project | Jan 2019 - Apr 2019 | Guide: Dr Shree Prakash Tiwari

- Studied six different algorithms to add two binary numbers
- Compared delay, area and power of these algorithms in **Xilinx-ise**
- Project report and code: github.com/AlishKanani/32bitAdders/

AES Data Encryption on FPGA

Gymkhana Project | Sep 2018 - May 2019

- The aim of the project was to develop an FPGA based encryption engine to facilitate massive data encryption and decryption.
- Project link: github.com/AlishKanani/AES/

NETRA- Indoor Navigator for Visually Impaired

Texas Instruments IICDC Competition | Aug 2018 - May 2019

- Applied dead reckoning for indoor navigation without expensive infrastructure.
- Implemented on **Beaglebone black** using 9 axis **IMU**
- Audio and haptic feedback for navigation especially for the visually impaired

Positions of Responsibility

CAPTAIN Electronics Club | Aug 2018 - May 2019

- Coordinated and managed year round activities and finance of the Electronics Club at IIT Jodhpur

STUDENT GUIDE Counselling Service | Aug 2018 - May 2019

- Mentored freshmen students as a Student Guide for their smooth transitioning into college/hostel life.

Achievements

- Led the team of project NETRA and reached **semi-finals** of **DST** and **Texas Instruments India Innovation Challenge Design Contest 2018** among **10,146 teams** comprising of **26511 students** from **1760 colleges**
- Won First Place in the **Analog Designs** - an online contest by **Texas Instruments University Program**.
- Placed among the top **0.5% of 1.4 million** applicants in JEE Advanced 2017