

# 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 An Accuracy Configurable Adder and helped in An Accuracy-Configurable Rounding-Based Multiplier
- Submitted two papers in The IEEE International Symposium on Circuits and Systems (ISCAS), 2020

## 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/](https://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/](https://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