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**
- Compared proposed circuits with state of the art circuits in Synopsys Design Compiler and in octave (1 million times) to calculate error matrix.

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