

# Siddhant Saoji

Last Updated on 15th February 2019

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## EDUCATION

### IIT JODHPUR

SOPHOMORE BTech IN

MECHANICAL ENGINEERING

Expected Dec 2021

GPA: 8.66/10 (upto 3<sup>rd</sup> semester)

### DEOGIRI JUNIOR COLLEGE

HIGHER SECONDARY (SSC)

2017 | Aurangabad, MH

Percentage: 87.04%

### STEPPING STONES HIGH SCHOOL

SECONDARY (CBSE)

2015 | Aurangabad, MH

CGPA: 10/10

## LINKS

Github:// [sziddhant](#)

LinkedIn:// [siddhant-saoji](#)

## UNDERGRADUATE

Linear Algebra and Calculus

Computer Programming

Engineering Mechanics

Mechatronics

Mechanics of Solids

System Exploration and Workshop

Kinematics of Machines and Mechanisms\*

\*ongoing courses

## MOOC

Introduction to Image Processing\*

## SKILLS

### PROGRAMMING

Languages:

- C/C++

- Python

### SOFTWARES

- Matlab

- Cinderella 2.0

### OTHER TECHNOLOGIES

- Arduino

- NodeMCU

- Raspberry Pi

- Beaglebone

## PROJECTS

### ERGONOMICS OF ON-SCREEN KEYBOARD\* | BTech PROJECT

Guide: Dr B.Ravindra | IIT Jodhpur

- Analyzed geometric centroid computed using various **image processing** algorithms.
- Studying the impact of pressure and finger used on the centroid
- Applying the concept for better ergonomics.

### NETRA\* | IMU BASED INDOOR NAVIGATION

Texas Instruments IICDC

- Used dead reckoning to navigate indoors without requiring expensive infrastructure
- Used **Beaglebone black** and 9 axis IMU for the computation.
- Audio and haptic feedback for navigation especially the visually impaired

### SECUREIT | GYM KHANA PROJECT | IIT JODHPUR

Open Sourced [Github](#)

- Built a smart security solution for Science and technology society of IITJ to deploy in its rooms.
- Made an **android app** to generate OPT and monitor the room.
- Used multiple layers of security such as fingerprint authentication and face recognition Technologies: - **Raspberry Pi, Python, Wit.ai, Flask, MySQL**

### BO | CHAT BOT | MICROSOFT CODE.FUN.DO++

Open Sourced [Github](#) | Submission video [YouTube](#)

- Built a multi-functional chat bot deployed on **Facebook Messenger**, which can be used by affected people as well as rescue teams in case of a disaster.
- Technologies: - **Microsoft Azure, Python, LUIS, Flask, MySQL**

## POSITIONS OF RESPONSIBILITY

### AERO MODELLING CLUB | CAPTAIN

Aug 2018 – Present | IIT Jodhpur

- Conducted Open and internal club sessions
- Organized guest lectures and workshops
- Organized club events in Nimble 2019
- Built RC plane and a Quad-copter

### QUIZ CLUB | VICE CAPTAIN

Aug 2018 – Present | IIT Jodhpur

- Conducted Open and internal Quizzing sessions
- Organized and hosted inter-college Quiz in Ignus 2019

### ROBOTICS CLUB | CORE MEMBER

Aug 2018 – Present | IIT Jodhpur

- Made various projects such as room automation

## EXTRACURRICULAR

- Assistant-Head of services for Ignus 2019
- Played for the college basketball team in Sangram 2018 organized by IIT Roorkee.
- Participated in Tech-Fest organized by IIT Bombay.