

# Siddhant Saoji

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## EDUCATION

### IIT JODHPUR

PRE-FIANL YEAR BTech IN  
MECHANICAL ENGINEERING  
Expected Dec 2021  
GPA: 8.73/10(upto 4<sup>th</sup> semester)

### DEOGIRI JUNIOR COLLEGE

HIGHER SECONDARY (HSC)  
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

## AUDIT

Introduction to Image Processing  
Machine Learning  
Reinforcement Learning\*

## SKILLS

### PROGRAMMING

Languages:

- C/C++
- Python

### SOFTWARES

- Matlab
- Cinderella 2.0
- Adams

### OTHER TECHNOLOGIES

- Arduino
- NodeMCU
- Raspberry Pi
- Beaglebone

## PROJECTS

### QRRT:QUALITY BIASED INCREMENTAL RRT FOR OPTIMAL MOTION PLANNING\* | SUMMER PROJECT

Guide: Dr Suril V Shah | IIT Jodhpur

- Implementing the qRRT algorithm for mobile robots using **reinforcement learning**.

### ERGONOMICS OF ON-SCREEN KEYBOARD | B.TECH PROJECT

Guide: Dr B.Ravindra | IIT Jodhpur

- Analyzed the centroid computed using various **image processing** algorithms.
- Studied the effect of pressure and different finger on the centroid.
- Applying the concept for suggesting improvements for better ergonomics.

### NETRA | IMU BASED INDOOR NAVIGATION

Texas Instruments IICDC 2018

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

### 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**

## HONORS AND ACHIEVEMENTS

- **Semi-finalist** in **DST** and **Texas Instruments** India Innovation Challenge Design Contest 2018 among 346 teams comprising of 1185 students from 180 colleges

## POSITIONS OF RESPONSIBILITY

### AERO MODELLING CLUB |CAPTAIN

Aug 2018 – Present | IIT Jodhpur

- Conducted club sessions and organized guest lectures and workshops
- Organized club events and workshops in Nimble 2019

### QUIZ CLUB |VICE CAPTAIN

Aug 2018 – Present | IIT Jodhpur

- Conducted Open and internal Quizzing sessions
- Organized 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 department in Ignus 2019
- Played for the college basketball team in Sangram 2018 organized by IIT Roorkee.
- Participated in Tech-Fest organized by IIT Bombay.