



JITESH SONKUSARE

📞 09326363833

✉ jitesh3023@gmail.com

📍 Shree Niwas plot no: 36-C , Sector-5
,, Kharghar , Navi-Mumbai, 410210,
India

Birth Date
30/11/2000

Nationality
INDIAN

OBJECTIVE

I am a keen robotic enthusiast. During my under graduation I have developed various skills like data structures and algorithms in coding, complex problem solving, OpenCV, ethical hacking. Along with this I have learnt various domains of robotics like kinematics, methods of solving dynamics, linear-algebra. Further I have worked with various real time simulation software like Gazebo and V-rep. Thereby I would like in contributing to the research done by your institute by joining it.

EDUCATION

Undergraduate (Electrical Engineering), Veermata Jijabai Technological Institute (VJTI)

Matunga, Mumbai | 2018 - 2022

Current CGPA - 8.93

Branch rank - 6th

Class - XII (HSC), Terna Vidyalaya

Nerul , Navi Mumbai | 2017 - 2018

85.6%

Class - X (ICSE), Ryan International School

Kharghar , Navi-Mumbai | 2015 - 2016

89.5%

ACHIEVEMENTS

- Completed 3 levels of Mental arithmetic skills.
- Current Branch rank 5.
- Was in top 1 percentile scorer in 12th standard.

PROJECTS

Quadruped

2019 May - 2019 August

ROLE:- Electronic designing and coding

Description :-

An autonomous 4-legged robot which can navigate various rough terrains with following different gait algorithms like creep, trot, etc. We have implemented closed looped odometry. It can navigate to any particular coordinate given to it by coding.

Responsibilities :-

- To understand various concepts and teach to rest of the team members.
- To design electronic circuits and design if any issue exists.
- To maintain a proper communication with the seniors and faculty.
- To code for closed loop odometry.

Maze Solving Robot

2019 September - 2019 October

ROLE:- coding, sensors selection and optimization.

Description :-

A robot that can solve any given maze using Dijkstra and A star algorithm.

Responsibilities :-

- To apply various algorithms like BFS, DFS, Dijkstra on the robot and check which one is the most optimal.
- To study and use various sensors and select the most appropriate one.

Line Following And Self Balancing Robot

2019 September - 2019 September

ROLE:- coding and electronics

Description :-

A robot that can follow a line while along its locomotion and self balance while following that line. This robot uses MPU 6050 for balancing.

Responsibilities :-

- To obtain the readings of the sensors in different lighting condition.
- To calibrate the accelerometer and gyroscope.

Face Recognition

2020 June - 2020 July

It is an face recognizer application that recognizes a person based on various points on his face. It is trained using neural networks.

Bluetooth Controlled Robot

2019 October - 2019 November

It is a robot that is controlled using android phone using an application. This application is build by me from scratch. This can navigate in all direction along with 360 degrees spot turn. It uses HC-05 bluetooth module.

Temperature Sensor Circuit

2020 October - 2020 November

It a circuit that measure real time room temperature. It uses Lm-35 temperature sensor, arduino and a 16*2 LCD display from showing output.

INTERNSHIP

2018 December - 2019 January

Learnt how to develop android application and publish it on Google Play Store. It gave me and inside look of how an android application is developed. I used XML for designing its UI (User interface) and Kotlin for adding various functionalities. At the end of the internship I build an android app which is and music player that has some phenomenal features like shake the phone to change song etc.

TECHNICAL SKILLS

- Can work with simulation software's like Gazebo, V-rep
- Know how to work with MATLAB, Simulink, Multisim.
- Can work efficiently with Windows and Linux operating systems
- ROS (Robot operating system)
- Python (Programming Language)
- C++
- Java
- Android app developer
- Programming
- C (Programming language)
- Kotlin programming
- Ethical hacking
- Troubleshooting and debugging skills
- Object-oriented programming

EXTRA CURRICULAR

- Got selected in Swadeshi microprocessor challenge, a national level competition.
- Received medal in 10km marathon conducted by college.
- Achieved certificate of excellence in ANDROID APP DEVELOPMENT from internshala.
- Received certificate of specialization in Deep Learning (consisting 5 Courses).
- Won first price in Eklavya robotic competition by building a Quadruped (a four legged robot).
- Received third price in wall-e competition.

PERSONAL DETAILS

Gender :- Male

Date of Birth :- 30/11/2000

Nationality :- Indian

Religion :- Hindu

Languages :- English, Hindi, Marathi, French

REFERENCES

1) Alice Cheeran maam :-

Associate Professor,

Electrical Engineering Department,

V J T I, Mumbai.

ancheeran@ee.vjti.ac.in