

PRABHAKAR JAISWAL

Junior at SVNIT Surat

Fast learner, Innovative, Tech-Enthusiast



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EDUCATION

B.Tech in Electrical engineering

Sardar Vallabhbhai National Institute of Technology

07/2019 - Present

CGPA 8.54

Higher Secondary School Certificate

SVM Munger

06/2016 - 04/2018

79.8%

PERSONAL PROJECTS

NXP AIM online design challenge (03/2021 - 07/2021)

- Among top 10 finalist
- traffic sign detection with yolov3, lidar integration on ROS2 gazebo
- PID control of steering, custom algorithm for obstacle avoidance for autonomous vehicle

GUJCOST 2.0 (12/2020 - 06/2021)

- Consolation prize in stage 2
- Stage 1 winner- 50k assistance for prototype development
- made prototype of wireless underwater bot with 3DOF, multi terrain land, water and ice; custom Rhex mechanism

ABU ROBOCON (10/2020 - 03/2021)

- 100/100 in Design detail report
- Role: localization, sensors integration MPU6050, Encoder and all electronics

Electric go-kart design (05/2020 - 07/2020)

- Designed electrical and electronics system for an Electric go-kart
- Contributed in low and high voltage circuit, BMS design

WORK EXPERIENCE

Executive

Drishti Student chapter

08/2020 - Present

Technical club of SVNIT Surat

[Achievements/Tasks](#)

- Managed Avion, Makerspace club events

Member

SAE Student chapter

05/2020 - 07/2020

[Achievements/Tasks](#)

- GKDC Electric go-kart design challenge winner

SKILLS

Robot operating system (ROS)

Embedded System

Machine learning

Computer vision

Proteus

Sensor integration

Atmel AVR

Teamwork

ACHIEVEMENTS

GUJCOST 2.0 stage 2 : Consolation prize (08/2021)

Designed and developed a prototype of an underwater bot with 3DOF and multi terrain

NXP AIM stage 2: Top 10 finalist (07/2021)

Simulated and developed autonomous car able to detect traffic sign and avoid obstacle in real-time

GKDC Electric go-kart design : Winner (07/2020)

Designed of Electric go-kart with max speed 90kmph; virtual presentation of design and technical interview in covid era

Vidya Bharati National Science Exhibition (2018)

Science project: working model presentation of small FM radio station, 12 to 30Kv voltage convertor, wireless charger for phone and Logic Gates with transistor

Young Scientist India: Participant (2016)

Selected among 92 projects all over India conducted by Space Kidz India Entitled with "Satellite laser missile interception system: A shield for our country"

CBSE National level science fair : Participant (2016)

Renewable sources of energy science project: State level winner Working model and presentation on Non conventional source of energy Solar: thermal and PV, Nuclear, Geothermal, Wind: Innovative design

LANGUAGES

C++ ● ● ● ● ○

C ● ● ● ○ ○

Python ● ● ● ○ ○

INTERESTS

Robotics

AI/ML

Research