

Krushnal Patel

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SKILLS

LANGUAGES

C++ • HTML/CSS • L^AT_EX
Python • JavaScript

TOOLS+TECH

ROS • Linux • ReactJS
NodeJS • git

SOFT SKILLS

Leadership • Communication

EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY

B.TECH IN COMPUTER ENGG.
Expected 2023 | New Delhi
Cum. GPA: 6.6

NEW MILLENNIUM SCHOOL

CBSE XII - SCIENCE
2019 | Bahrain
Percentage: 91%
SCHOLAR'S BADGE

INDIAN SCHOOL, BAHRAIN

CBSE X
2017 | Bahrain
Cum. GPA: 9.6/10

ABOUT ME

I am a software development enthusiast specializing in autonomous mobility, Web Development and robotics. Other hobbies and interests include cybersecurity and Artificial Intelligence.

LINKS

GitHub:// krush11
LinkedIn:// krushnal
My Portfolio: krushnal.me

SOCIETIES

COGNITIVE MINDS

DEBATING Co-HEAD

2020 - Present

- Participated in various debating competitions including IIT-BHU and IIT-Kanpur fests

EXPERIENCE

DEFIANZ RACING

Oct 2020 - Present | New Delhi

- Part of a team that made the **first autonomous F1 car in India**
- Developed robust Path Planning algorithm using **navstack** for ROS noetic
- Responsible for integration of **SLAM** into **ROS framework**
- Tuned and tested the simulation intensely to bring out the best performance of the vehicle

NAVIGATION LEAD

DTU SELF-DRIVING CARS

Dec 2019 - Sept 2020 | New Delhi

SOFTWARE ARCHITECT

- Developed software suite of an autonomous vehicle for **IGVC'20** (*canceled due to COVID'19*)
- Integrated data from sensors into **ROS framework** with **NMEA 0183** compliance
- Build custom arduino scripts to extract data from rotary encoders

CODING NINJAS

Sept 2020 - Jan 2021 | Online

TEACHING ASSISTANT

- Mentored a batch of 20 students in competitive coding in C++
- Resolved bugs in MERN stack
- Evaluated NodeJS and ReactJS projects

TECHNICAL PROJECTS

WALL FOLLOWING ROBOT

ROS, Linux, git

- Built a simulation of a center wall following robot using *roscpp* and *rospy*
- Designed the URDF and customized it by adding a lidar plugin into Gazebo
- Developed a multiplexer to integrate all nodes.
- Tuned and tested the simulation extensively to work under extreme velocities.

OPEN SOURCE CONTRIBUTIONS

- OpenCV [openCV](#): PR # 19301
- OpenCV [openCV](#): PR # 18590
- Google [gnostic](#): PR # 226
- Frappe [erpnext](#): PR # 23933