

AKASH CHAUTE

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🌐 [Portfolio Website](#)

PROJECTS

Prayaas Social Club Website

Collaborative Project

[🔗Link](#)

📅 March 22 - April 22

- Developed a dynamic website for a social club at college that will facilitate communication and engagement between members and society.
- Designed the website using React Js and CSS to showcase upcoming events, photo galleries, and member profiles. Utilized a responsive design to ensure compatibility across various devices.

Voice Assistant

Self Project

[🔗GitHub](#)

📅 December-2022

- Designed and implemented a Python-based voice assistant game that allows users to interact with a virtual assistant via voice commands and receive output in text format.
- Incorporated various features like reading audiobooks, surfing on Wikipedia, opening different sites, etc.

Motion Planning

lvLabs, VNIT

[🔗GitHub](#)

[▶\[Video\]](#)

📅 December 21 - May 22

- Implemented the A-star path planning Algorithm on a custom differential drive the mobile robot in a custom Gazebo environment.
- Designed a path follower using a PID controller for the bot to follow the path generated by A-star.
- Extended the A-star Algorithm to receive a smooth path using RDP and B-splines algorithms.

Quadcopter Trajectory Follower

lvLabs, VNIT

[🔗GitHub](#)

[▶\[Video\]](#)

📅 July 21 - October 21

- Implemented a PID-based controller to follow Trajectories, including Hovering at a particular height, Straight line, Sine Curve, and Helix curve.

MINI PROJECTS

The Dice Game

[🔗GitHub](#)

[▶\[Video\]](#)

Developed a web-based dice game that allows players to test their prediction and luck skills by placing bets on the outcome of a dice roll in React JS. Incorporated the CSS using Chakra UI. Resulted in an engaging and exciting game for players to enjoy.

Tic-Tac-Toe(CPP)

[🔗GitHub](#)

Developed a Tic-Tac-Toe game. A simple game of 2 players played on a 3X3 board.

Extended Kalman Filter

[🔗GitHub](#)

Implemented the Extended Kalman Filter on a unknown map, which estimated the trajectory of a vehicle using odometry, range and bearing measurements using the LiDAR sensor mounted on a vehicle.

Path Planning

[🔗GitHub](#)

Worked on a global path planner algorithm to find the shortest path between two points using A-star Algorithm.

EDUCATION

Visvesvaraya National Institute of Technology

B.Tech in Mechanical Engineering

CGPA: 8.36/10

[📄Grade Card](#)

📅 December 2020 - May 2024(expected)

📍 Nagpur, India

TECHNICAL SKILLS

Data Structures and Algorithms

C/C++

Python

React JS

HTML

CSS

JavaScript

Tailwind

Bootstrap

Markdown

OpenCV

NumPy

LaTeX

Fusion360

MATLAB

MS-Excel

Gazebo

RViz

Simulink

ROS

RELEVANT COURSES

MOOC

- Data Structures and Algorithms
- Python Programming
- Aerial Robotics -[\[Certificate\]](#)

Department Courses

- Differential Calculus (MAL101, MAL102)
- Integral Transform and Partial Differential Equations(MEL201)
- Business Analytics(CSL374)

EXTRACURRICULARS

- Conducted and volunteered for workshops under the IEEE VNIT Student Branch.
- Member of Team Velocity, a team of enthusiasts from VNIT Nagpur working to design and fabricate a Formula Student racecar.
- Sports- Cricket Player