

AKASH CHAUTE

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PROJECTS

Voice Assistant

GitHub

December-2022

- This voice assistant is made in the python programming language. It takes input in the form of voice and outputs in voice and text format.
- It has various features which include reading audiobooks, surfing on Wikipedia, opening different sites, etc.

Motion Planning

IvLabs, 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

IvLabs, 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

Tic-Tac-Toe(CPP)

GitHub

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

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: 8.32/10

December 2020 – May 2024(expected)

Nagpur, India

TECHNICAL SKILLS

Data Structures and Algorithms

C/C++

Python

MS-Excel

Markdown

OpenCV

NumPy

LaTeX

HTML

CSS

MATLAB

Fusion360

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)

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.