Nachiket Sawwalakhe

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Self Introduction

Energetic and passionate college student pursuing a B.Tech in Electronics & Communication engineering and having a very good interest in robotics. Aiming to use and test knowledge and skills in industry. Has a problem solving skill along with good understanding. Has hands-on experience in many Robotics and IT technologies

Education

Visvesvaraya National Institute of Technology   City, Nagpur
B-Tech in Electronics and Communication Engineering   2019–Current
CGPA : 9.25

Shri Shivaji Science College   City, Amravati
HSC Percentage : 88.77 %   2017–2019

S. F. L. High School and Jr. College   City, Dhamangaon Rly
SSC Percentage : 93.80 %   2017

Experience

IvLabs/VNIT   City, Nagpur
Summer Intern at IvLabs VNIT   Summer 2020
Projects
  - Cruise Controller
  - Data Synchronisation Via Firebase

Skills

- Data Structure
- ROS-Gazebo
- Pybullet
- MATLAB
- Android Studio -Android App Development

Other Skills

- Problem Solving
- Time Management
- Handling Pressure
- Team Work
- Multitasking

OS & Languages

- **Linux**
- **Windows**
- **Python** (More than Intermediate)
- **Java** (Intermediate)
- **C++** (Intermediate)
- **C-language** (Intermediate)

- **Java Scripts** (Basic)
- **HTML & CSS** (Basic)
- **PHP** (Basic)
- **SQL** (Basic)

Flagship Projects

- **Manipulation of Robotic Arm** (Current)

  Studying and Controlling the Manipulator

  In this Project Dynamics , Forward Kinematics , Inverse Kinematics and Controls of Manipulator has been studied and implemented on ur-5 using Pybullet. also plan to Implementation of Pick and Place using ur5 and robotiq-gripper on Pybullet as well as on Gazebo simulator. This is an ongoing project .

  More Info : github.com/IvLabs/manipulation

- **Music Player** 2020-2021

  This is a Simple Music Player build using Android Studio.

  Features

  – Full list of all Songs in the Device

  – Separate Player for playing the songs

  – Song Can be play in the background

  – Interactive Notification widgets

  More Info : github.com/Nachiket497/Music_Player

- **Cruise Controller** Summer 2020

  Designing cruise controller to reach desired velocity by Implementing the concept of PID controller .

  In this Project PID controller implemented using matlab from the scratch . also plots the results for various conditions using MATLAB. It is design in such a manner that it can handle the set point changes varying with the time of simulation.

  More Info : github.com/Nachiket497/CRUISE-CONTROLLER

- **Data Transfer APP** Summer 2020

  Synchronisation of data between our phone and a python program in Realtime

  In this task , synchronisation of data between our phone and a python program on the computer in Realtime using the Firebase Database. I also created a Realtime database on our firebase console via the browser. This database will be connected to the app whenever the app is opened.

  More Info :github.com/Nachiket497/FirebaseAPK

Other Projects

- IOT_Base_Air_Qulity_checker (Arduino , CPP)

- Manipulator (Python)

- TextEditor (Java , Only Backend)

- 2048 - Game (Python)

Achievement

- Secured 7056 Rank in Google Hashcode 2021
- Scholarship For Higher Education (SHE) under Innovation in Science Pursuit for Inspired Research (INSPIRE) 2019
- Performance in top 1% in HSC Examination by MSBSHSE ,Pune 2019
- Cleared JEE MAINS Entrance exam with AIR 12908 2019
- Cleared VITEEE Entrance exam with AIR 601 2019

Extracurricular Activities

- **Member at IvLabs** 2020 - Current

  IvLabs serves as a platform for students from different engineering backgrounds to collaborate and work together with the utmost team spirit and avidity to bring innovative ideas into reality

  More Info :www.ivlabs.in

- Fond of Drawing and Playing Cricket ,volleyball

Declaration

I hereby declare that the details and information given above are complete and true to the best of my knowledge