

Shivam Chavan

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Education

Vishwakarma Institute of Technology | Cum. GPA : 8.20/10

Pune, India

B.TECH IN INDUSTRIAL ENGINEERING

July 2018-present

Kamla education society Pratibha College | Percentage : 73.2/100

Pune, India

HIGHER SECONDARY EDUCATION IN SCIENCE STREAM

May 2018

SPM Eng. Medium School | Percentage : 85/100

Pune, India

SECONDARY EDUCATION

May 2016

Honors & Achievements

- 2021 **Top 13 semi-finalists e-Yantra's Robotics Competition.** *India*
- 2019 **Achieved 5th rank in Bizz Hour national Startup Idea Pitching Competition** *India*
- 2019 **Participated in PCCOE's Spectrum endurance bot challenge** | only team which was wireless *India*
- 2019 **Presented paper in International Conf. On Energy and Environment** *India*
- 2014 **3rd Rank Achievement** | South Asia's biggest recycle Competition *Pune, India*

Experience

- April'21 **Robotics Intern @ Octobotics tech** | ROS | 7Dof Manipulator *India*
- Feb'19 **Electronics Intern @ Fly Master (Micro Aviation)** | Electronic Assembly | Static models *India*
- 2019 **Mechanical intern @ Athira Industry** | Die Profiles | Injection Molding *India*

Projects

Low cost Force / Torque sensor development Fanuc Arm [Funded]

PROJECT MEMBER | JAN 2020 - Ongoing

- 3D Printed optical 6 DoF Sensor For industrial/Lab Robotic Arm.

LIDAR based autonomous indoor navigation for Mobile Robot (Major Simulation)

PROJECT LEAD | NOV 2020 – JAN 2021

- SLAM algorithm (gmapping) for mapping and AMCL via ROS for localization. DWA for path planning in GAZEBO.

Vision based 6 - DoF Arm manipulation Pick & Place | ROS | ur5 | gazebo (Major Simulation)

TEAM MEMBER | JAN 2021- MAR 2021

- Point cloud based RANSAC plane segmentation using PCL and Planning scene base collision aware Manipulation.

Django Based Content Management Website

DEVELOPER | APR 2021 - MAY 2021

- Developed a django admin site with basic functionalities like login, logout, database driven site. (link)

GPS based autonomous drone navigation for pick and drop off packages | ROS | PID

PERSONAL | APR 2021 – ONGOING

- Smart drone for pickup and delivery system of packages based on QR-code stickers.

Raspberry PI and Microcontroller Projects

PROJECT LEAD | AUG 2018 – DEC 2020

- 2 axis CNC plotter machine, was selected as best Engineering, Design and Innovation in college in 1st year | Arduino UNO
- Wireless four wheel robot with differential drive using NRF 2.4 Ghz modules | Arduino Nano | NRF 24
- Smart Helmet with heads up display to show location and route to the location | Arduino Nano
- Fuel measuring kit for bikes to check integrity of the amount of fuel being filled | Arduino UNO
- Physical 3 dof arm controlling with moveit packages ROS and servos | Arduino UNO
- Alexa on ubuntu | Raspberry PI

Skills

Programming • ROS • Python • HTML • Bash • Linux • urdf • xacro

Software • Gazebo • openCV • Blender • PCL(Point cloud library) • Tensorflow • Keras • ArduinoIDE • Anaconda • Django framework • Yolov3 • Moveit • Rtabmap •

Hardware • Arduino • Raspberry Pi • NodeMCU (ESP8266) • Motor controllers • NRF 24 •

Certified Courses

2021	Tata Ready Engineer BIW certificate readyenginner	India
2021	ROS for Beginners II: Localization, Navigation and SLAM udemy	India
2020	Introduction to the Internet of Things and Embedded Systems coursera	India
2020	Convolutional Neural Networks in TensorFlow coursera	India
2020	Crash Course on Python coursera	India
2020	Neural Networks and Deep Learning coursera	India
2020	Visual Perception for Self-Driving Cars coursera	India
2020	Automate the Boring Stuff with Python Programming udemy	India
2020	Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning	India

Roles&Responsibilities

2017	CSGO lan wars vishwakarandak , Co – Head	VIT P, India
2017	CSGO lan wars vishwatatwa [college event] , Head	VIT P, India
2017	Publicity Head of SAEINDIA Team VIT , Head	VIT P, India