

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 | <i>India</i> |
| 2019 | Achieved 5th rank in Bizz Hour national Startup Idea Pitching Competition link | <i>India</i> |
| 2019 | Participated in PCCOE's Spectrum endurance bot challenge wireless link | <i>India</i> |
| 2019 | Presented paper in International Conf. On Energy and Environment link | <i>India</i> |
| 2014 | Achieved 3rd Rank in Recycle Raja South Asia's biggest recycle Competition link | <i>Pune, India</i> |

Experience

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

Projects

Low cost Force / Torque sensor development Fanuc Arm | Industrial Department [ISRO 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 | [link](#)

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 | [link](#)

TEAM MEMBER | JAN 2021- MAR 2021

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

Integration of navigation, manipulation, perception | skid rover | ur5 | gazebo | [link](#)

TEAM LEAD | APR- MAY 2021

- Robot was capable of autonomous pick, navigate to drop location and place objects.

Django Based Content Management Website | [link](#)

DEVELOPER | APR 2021 - MAY 2021

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

GPS based autonomous drone navigation for pick and drop off packages | ROS | PID | [link](#)

PERSONAL | APR 2021 – ONGOING

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

Yolo Object detection for object recognition and manipulation | ML | [link](#)

PERSONAL | MAR 2021 – MAR 2021

- Trained and implemented yolo v3 model for object detection.

Raspberry PI and Microcontroller Projects

PROJECT LEAD | AUG 2018 – DEC 2020

- 2 axis CNC plotter, got selected as best Engineering, Design and Innovation in college in 1st yea | 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
- Django localhost website for home automation | Raspberry pi

Skills

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

Software • Gazebo • openCV • Blender • PCL(Point cloud library) • Tensorflow • Keras • ArduinoIDE • Anaconda • Django framework • Yolov3 • Moveit • Rtabmap • Label-Img • AWS EC2 • machine learning

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

Certified Courses

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

Roles & Responsibilities

2021	CSGO lan wars Vishwakarakandak , Co – Head	VIT P, India
2020	CSGO lan wars Vishwatatwa [college event] , Head link	VIT P, India
2019	Publicity Head of SAEINDIA Team VIT , Head	VIT P, India