

Shailesh Pawar

Dedicated and detail-oriented roboticist with 2.7 years of experience as a Robotics Developer. Life aim is to enhance knowledge and understanding as well as leverage to develop Research and Development for robotics.

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EXPERIENCE

Engineering Services International, Ahmedabad — Robotics Software Engineer

Feb 2021 - Present

Project Name — ROBOSEUM

Working on building **India's first Robotics Museum** at Science City Ahmedabad, collaboration with Government of Gujarat for the purpose of demonstrate the technological advancements in different fields of robotics.

Key responsibilities -

- Created a customized Chatbot using RASA and integrated with Pepper Humanoid Robot to greet and help visitors.
- Integrated Nao Robot with ROS platform to perform multiple dance moves according to song requested by the visitor.

Proven Consult, Bangalore — Robotics Developer

Dec 2019 - Jan 2021

Project Name — Nao and Pepper Robot

We built multiple applications using Nao and Pepper robots as per the client requirements.

Key responsibilities -

- SW development of Nao and Pepper robots using Naoqi & Choregraphe.
- Forward and Inverse Kinematics implementation for arm's.
- Created RESTFUL API's for Android integration.

EDUCATION

Udacity, Nanodegree - Robotics Software Engineer

Dec 2020

University of Mumbai, Degree - B.E.(Mechatronics)

Jun 2014 - May 2018 | CGPA : 6.75

SKILLS

Languages - Python, C++.

Operating System - Linux.

Framework - ROS

Libraries - OpenCV,
TensorFlow, RASA, Keras.

Mathematics for algorithms -
Forward Kinematics, Inverse
Kinematics, SLAM, Sensor Fusion.

GITHUB LINK

<https://github.com/Shailesh-Pawar-12>

Linkedin Profile

<linkedin.com/in/shaileshpawar12>

CERTIFICATIONS

C++ (Udemy)

ROS (Udemy)

Self Driving Car (Udemy).

Project Name — Dobot Magician Robot

DOBOT Magician is a multifunctional desktop robotic arm for practical training education.

Key responsibilities –

- SW development using Dobot studio.
- Create a customized end effector for specific applications using Solidworks.
- Create an API to communicate with Dobot Magician.

Achievement: Got the opportunity to work onsite (Riyadh) for the above mentioned projects.

Sastra Robotics India, Kochi — Robotics Engineer

Sep 2018 - Oct 2019

Project Name — Industrial Scara Robot (QUACO)

Client – Bosch Bangalore

Industrial scara robot (Quaco) was developed to test the limitations of different DUT such as mobile devices, car infotainment systems with high precision. We developed this robot from scratch including H/W & S/W implementation.

Key responsibilities –

- Implemented an Inverse Kinematics and TF for Scara Robot
- Developed Hardware Register level libraries for Specific Motors.
- Developed ROS package with different Nodes for the Scara Robot.
- Developed an API for Client to communicate with Scara Robot.
- Developed Test Software for Testing Scara Robot for all possible conditions.
- Developed a GUI using Kivy to communicate with Scara Robot.

Achievement: Became a Senior Robotic Software Engineer in the time period of work.

AWARDS

Zonal Winner in National Robotics Championship Mumbai.

3rd Prize in Indo-US Robo League.

Participated in ROBOCON 2017-18.

PERSONAL PROJECTS

- <https://youtu.be/b9wVo1e04Ok>
- <https://youtu.be/wyPgb1JYMaM>
- <https://youtu.be/nON55ACTZg0>
- <https://youtu.be/dTp0S6SRR3I>
- https://youtu.be/R5aIG_tZISE
- https://www.youtube.com/watch?v=cTY3_f8zomY

LANGUAGES

English, Hindi, Marathi.