

# Shivam Chudasama

Robotics Engineer | Autonomous Systems Specialist

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## Summary

Innovative Mechatronics Engineer specializing in robotics systems design, ROS 2, and autonomous navigation solutions. Skilled in C++, Python, and TensorFlow with practical experience in creating intelligent robotic systems. Proven ability to lead projects from concept to deployment, with a focus on optimizing performance and efficiency.

## Education

M.Eng in Mechatronics and Robotics (Hons)

*De Montfort University*

09/2018 – 03/2024

B.Eng in Mechatronics Engineering (Hons)

*Asia Pacific University of Technology and Innovation (APU)*

09/2018 - 03/2024

## Technical Skills

Programming: C++, Python, Java, Arduino

Robotics Frameworks: ROS 2, SLAM, Odometry, Sensor Fusion, Gazebo

Hardware & Tools: Raspberry Pi, ESP32, LIDAR, TensorFlow, OpenCV

Platforms and Software: AWS Cloud Services, Solidworks, MATLAB, LabVIEW

## Work Experience

### Repair Technician

*LSANG Communications SDN BHD* | Kuala Lumpur, Malaysia

12/2021 - 04/2022

- Performed diagnostics and repairs of power supplies, amplifiers, and other electronic devices.
- Increased repair efficiency by 15% through streamlined procedures.
- Mentored 3 junior technicians and ensured accurate stock management

## Project Experience

- **SLAM Akerman drive robot (Ongoing):** Developed a navigation robot using ROS 2, LIDAR, and sensor fusion. Achieved 95% localization accuracy.
- **Unmanned Ground Vehicle (UGV) for Fertilization:** Designed and built an autonomous fertilization UGV for palm plantations, reducing waste by 30%.
- **Sign Language Translator:** Created a machine-learning-powered Android app for sign language recognition using TensorFlow and OpenCV.
- **Smart Hospital Environment (SHE):** Developed an IoT system for hospitals, awarded Silver at Malaysia Technology Expo 2022.

## **Achievements**

- Silver prize- Smart Hospital Environment (SHE) project in the Malaysia Technology ExpoTM (03/2022 - 07/2022)

## **Certifications**

- ROS for Beginners (Python & C++) – The Construct
- ROS2 NAV2 (Navigation 2 Stack)- with SLAM and Navigation – Udemey
- Certified Secured Computer User v2 – EC-Council
- Basics Computer Course – Power Computers
- Driving Certificate- Signature Driving School.
- Graduate Engineer - Board of Engineers Malaysia (BEM)

## **Affiliations**

- Member, Graduate Engineer, BEM (2023 - Current)
- Member, Engineer, IMechE (2023 - Current)

## **Languages**

- English - Fluent
- Gujarati - Fluent
- Swahili - Fluent
- Hindi - Intermediate

## **References**

Assoc. Prof. Ts. Dr. Sathish Kumar Selva Perumal  
*"Professor at Asia Pacific University"*  
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