Curriculum Vitae - Robotics Engineer - Singapore Singapore

# Curriculum Vitae

## Robotics Engineer | Singapore Singapore

### Contact Information

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**Location:** Singapore Singapore

### Professional Summary

A highly motivated Robotics Engineer with [X years] of experience in designing, developing, and deploying advanced robotic systems. Specialized in automation, artificial intelligence (AI), and mechatronics, with a proven track record of delivering innovative solutions for industrial and commercial applications. Committed to advancing the robotics industry in Singapore Singapore through cutting-edge research, collaboration with local stakeholders, and adherence to global standards. A strong advocate for leveraging robotics to enhance productivity, safety, and sustainability in smart cities.

### Education

#### Bachelor of Engineering in Robotics and Automation

**Institution:** Nanyang Technological University (NTU), Singapore Singapore

**Year of Graduation:** 20XX

Relevant coursework: Advanced Robotics, Machine Learning, Embedded Systems, Industrial Automation.

#### Master of Science in Artificial Intelligence and Robotics

**Institution:** National University of Singapore (NUS), Singapore Singapore

**Year of Graduation:** 20XX

Focused on AI-driven robotics, sensor integration, and human-robot interaction. Conducted research on autonomous navigation systems for logistics applications.

### Work Experience

#### Senior Robotics Engineer

**Company:** A\*STAR Institute for Infocomm Research, Singapore Singapore

**Duration:** January 20XX – Present

* Lead the development of AI-powered robotic systems for smart manufacturing environments, improving efficiency by 30%.
* Collaborated with local industries to integrate robotic solutions into production lines, reducing manual labor costs.
* Published research on autonomous mobile robots in IEEE journals, contributing to Singapore's reputation as a robotics innovation hub.
* Mentored junior engineers and participated in industry workshops to promote robotics adoption across Singapore Singapore.

#### Robotics Systems Engineer

**Company:** Symbio Robotics Pte Ltd, Singapore Singapore

**Duration:** June 20XX – December 20XX

* Design and test robotic arms for precision assembly tasks in the semiconductor industry.
* Developed software algorithms for real-time object detection and path planning using ROS (Robot Operating System).
* Supported clients in Singapore Singapore to implement automated solutions, enhancing operational scalability.
* Partnered with academic institutions to pilot robotic systems for healthcare applications, such as hospital logistics.

#### Internship: Robotics Research Assistant

**Company:** Singapore Institute of Technology (SIT), Singapore Singapore

**Duration:** July 20XX – December 20XX

* Aided in the creation of a drone-based inspection system for infrastructure monitoring.
* Conducted experiments on sensor fusion techniques to improve environmental perception in robots.
* Gained hands-on experience with simulation tools like Gazebo and MATLAB/Simulink.

### Skills

* **Technical:** ROS, Python, C++, MATLAB, CAD (SolidWorks), Sensor Integration (LiDAR, IMU), Machine Learning.
* **Software:** Unity for simulation, Git for version control, Docker for deployment.
* **Languages:** English (fluent), Mandarin (intermediate).
* **Certifications:** ROS Developer Certification, AWS Robotics Certified Professional.

### Projects and Technical Achievements

#### Autonomous Delivery Robot for Smart Cities

**Description:** Designed a self-navigating robot for last-mile delivery in urban environments. Integrated SLAM algorithms and obstacle avoidance systems.

**Impact:** Piloted in Jurong Innovation District, Singapore Singapore, reducing delivery time by 25%.

#### AI-Powered Robotic Gripper for Precision Manufacturing

**Description:** Developed a gripper with tactile sensors and machine learning to adapt to varying object shapes.

**Impact:** Adopted by a local electronics manufacturer, improving product quality and reducing rework costs.

#### Sustainable Robotics for Agricultural Applications

**Description:** Created an autonomous drone for crop monitoring and pesticide application using computer vision.

**Impact:** Reduced chemical usage by 40% in pilot farms across Singapore Singapore, supporting the country’s Green Plan 2030.

### Certifications

* AWS Robotics Certified Professional (20XX)
* ROS Certification (20XX)
* Project Management Professional (PMP) – PMI (20XX)

### Professional Affiliations

* Member, Singapore Robotics Society (SRS)
* Member, Institute of Engineering and Technology (IET)
* Presenter at the International Conference on Robotics and Automation (ICRA) 20XX in Singapore Singapore.

### Languages

* English – Native proficiency
* Mandarin – Intermediate (reading/writing)
* Malay – Basic (conversational)

### Additional Information

**Volunteer Work:** Mentored students at the Singapore Polytechnic Robotics Club, fostering interest in STEM.

**Hobbies:** Competitive robotics, drone flying, and coding for open-source projects.

This Curriculum Vitae is tailored for a Robotics Engineer role in Singapore Singapore, emphasizing local industry needs and global best practices. The document reflects a commitment to innovation, collaboration, and excellence in the field of robotics.