

TASCHAI SRILAMPUNG

ROBOTICS SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Recent Computer Science graduate passionate about robotics and embedded systems. Self-taught in ROS2, microcontroller programming (Arduino, ESP32), and Linux environments. Experienced in mobile device repair and systematic hardware-software troubleshooting. Currently building autonomous robotics projects involving SLAM and sensor integration. Seeking an entry-level position as a Robotics Software Engineer to apply and expand technical skills.

TECHNICAL SKILLS

- **Programming:** Python, C/C++, JavaScript, Java
- **Microcontrollers:** Arduino, ESP32, sensor integration
- **Robotics:** ROS2 basics, SLAM fundamentals, Micro-ROS concepts
- **Systems:** Linux (Mint/Ubuntu/Kali), CLI, GRUB/bootloader
- **Hardware:** Soldering iron, hot air rework station, power supply, multimeter
- **Web:** HTML/CSS/JS, Node.js, React

WORK EXPERIENCE

Smartphone Repair Technician | Mar 2025 – Present

Khumsup Mobile Repair Shop

- Perform hardware repairs including screen replacement, battery replacement, and component diagnosis
- Handle software issues: firmware flashing (weekly), virus removal (1-3 cases/week), unlock services (1-2 cases/week)
- Specialized repairs: iPhone Face ID dot-projector component repair, bootloader bypass procedures
- Troubleshoot hardware-software integration issues using systematic debugging approaches

PROJECT

Autonomous Cleaning Robot (In Development) | 2025 – Present

- Learning ROS2 navigation concepts and SLAM implementation
- Planning to integrate repurposed Xiaomi vacuum LiDAR sensor
- Using ESP32 with Micro-ROS for hardware interface instead of Raspberry Pi (cost consideration)
- Currently testing basic ROS2 nodes on laptop with ESP32 and servo motor integration

Equipment Management System (Senior Project) | 2024

- Developed web application using React frontend and Node.js backend
- Deployed system for university department use
- Gained experience in full-stack development and cloud deployment

Vehicle & Barrier Detection using YOLOv8 | 2024

- Trained object detection model on manually labeled Google Maps imagery
- Academic project demonstrating computer vision concepts

EDUCATION

Chulalongkorn University | 2020 – 2024

Bachelor of Science in Computer Science | GPA: 3.23

CERTIFICATIONS

- AI Hackathon (Aiful, 2024)