

Monruethai Sueksakan – CV



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Nationality: Italian (EU citizen), eligible to work in the EU/Schengen.
Driving Licence: B
Availability: Immediate – available to relocate internationally

Profile

Recent graduate (2025) with a Master's Degree in Computer Engineering for Robotics and Smart Industry. Actively pursuing early-career opportunities in advanced robotics, 3D perception, GPU-accelerated systems, and real-time spatial intelligence. Practical experience in robotics maintenance, computer vision, simulation, and CUDA-based parallel computing. Eligible for university/early-career and research-driven internship programs.

Technical Skills (Robotics & GPU)

GPU / Parallel Computing: CUDA programming, GPU memory management, parallel algorithms, optimization.

Robotics: ROS, ROS2 (basic), ABB RobotStudio (RAPID), robotic manipulation basics, robot control.

3D Perception & Computer Vision: OpenCV, PyTorch, image processing, feature extraction, basic 3D reconstruction workflows.

Simulation: Gazebo, ns-3, ABB RobotStudio; familiar with Isaac Sim / Isaac Gym.

Programming: Python (advanced), C++ (intermediate), C, MATLAB.

ML/AI: Fundamentals of deep learning, dataset preparation, evaluation metrics.

Operating Systems & Tools: Linux (Ubuntu/Kali), Git/GitHub, Docker.

Projects

CUDA Parallel Computing Project (GitHub)

Developed GPU-accelerated parallel algorithms using CUDA. Implemented thread optimization and memory management to improve computation speed for data-intensive tasks.

Robotics Simulation (ROS + Gazebo)

Designed and tested robotic behaviours in simulation, including perception, motion logic, and sensor integration.

Master's Thesis

Social Engineering and Smart Contracts – Vulnerabilities and Defenses in Industrial Applications.

Focused on cybersecurity architectures and industrial risk assessment.

Embedded Automation Prototype (STM32 / Arduino)

Designed a microcontroller-based automation system with C/C++ firmware.

Work Experience

2019 – Present – Robotics Maintenance Assistant / Presales Support

Robo Alive SRL – Italy

- Maintenance and troubleshooting of industrial robotic systems.
- Supported technical teams in optimizing robot performance and ensuring reliability.
- Assisted presales engineering activities for automation solutions.

Education

2020 – 2025

Master's Degree – Computer Engineering for Robotics and Smart Industry

University of Verona, Italy

2010 – 2012

Master's Degree – Cultural Linguistic Mediation, University of Verona

1999 – 2003

Bachelor of Science – Computer Science

Rajabhat Udon Thani University, Thailand

Languages

Thai: Native

English: C1

Italian: C1

Additional Information

- Immediate availability for relocation, including Switzerland.
- Strong interest in robotics research, GPU-accelerated computing, and perception systems.

**I authorize the processing of my personal data in accordance with EU Regulation 2016/679 (GDPR) and applicable Italian laws.*