NATTARRUD CHAROENNITHI

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Education

King Mongkut's Institute of Technology Ladkrabang — Bangkok, Thailand
Bachelor of Engineering, Robotics and AI Engineering — Aug 2019 – Present
- **Courses:** Machine Learning, Deep Learning, Computer Vision, Programming, Database, Robotic Systems
- **Cumulative GPA:** 3.67

Assumption College — Bangkok, Thailand
Science and Mathematics Program — May 2013 – Feb 2019
- **Accumulated GPA:** 3.18

Professional Experience

Robert Bosch Automotive Technologies Thailand Co., Ltd. — Rayong, Thailand
I4.0 & Digitalization Engineer – Project Management Team, Contract — Feb 2023 – Present
- Reduced company costs by developing **Tableau** dashboards to help find root causes and show machinery KPIs.
- Transformed the factory's supermarket system by implementing **RFID** technology in the manufacturing process.
- Contributed to product digital **traceability** solutions by developing Tableau dashboards and recording operating parameters to find the best solution.

Robert Bosch Automotive Technologies Thailand Co., Ltd. — Rayong, Thailand
Project Management Intern – Project Management Team, Internship — July 2022 – Dec 2022
- Improved the manufacturing process by supporting **digital transformation** projects
- Supported production relocation projects from Germany through **presentations** and **collaborating** with international colleagues

Certifications and Achievements

Cloud Digital Leader Certification — Sep 2022
Google Cloud

5th Place Subsea Machine Learning Hackathon — Dec 2021
AI and Robotics Ventures & RISE
- Led a team of undergraduates to compete against 20 teams nationwide by training **Pytorch** machine learning model to detect underwater objects by using **Docker** containers and **REST API**

MESAVE — Sep 2021
Startup Thailand League 2021 & Startup League, NIA
- Selected participants of 200 teams around the nation to showcase startup ideas by building an energy monitoring product using **IoT** devices and **MQTT** protocol

Personal Projects

Pill Classification — Dec 2021
- Helped people identify generic drugs by developing of computer vision system through the **YOLOv5** framework (link)

Yarmbot — Feb 2022
- Improved home security by building a mobile robot system using **ROS** and **Raspberry Pi** that can live stream camera feeds to mobile phones (link)

Hand Activity Tracking — Dec 2022
- Found human error while assembling parts by developing **Python** Deep learning program to track hand movements (link)

Skills

Languages:	Native Thai, Full Professional Proficiency in English
Technologies:	Python3, C++, JavaScript, HTML, Git, SQL, MongoDB, Tableau, Arduino
Soft Skills:	Fast learning, Adaptability, Creative Thinking, Problem-Solving, Teamwork
Activities:	Bosch Internship VDO, Senior Farewell VDO, Freshmen Camp's Head of House, Cheerleading