



# PANITHI THUNGKAO

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**Portfolio:** <https://github.com/clark-thungkao>

## SUMMARY

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Mechatronics engineering student (M.Sc.) delivering ROS2/industrial communication/automation integrations and CAD-to-prototype builds with V-Model discipline plus strong documentation, clean handovers, and leadership-ready updates.

## EDUCATION

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FH Aachen, Aachen – M.Sc. Mechatronics Engineering	2024 - Present
Hochschule Rhein-Waal, Kleve – B.Sc. Mechatronics Systems Engineering	2019 - 2023

## WORK EXPERIENCE

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<b>Outlier AI, AI Training Conductor (Mathematics)</b> <ul style="list-style-type: none"><li>Produced and quality-reviewed technical AI-prompted content</li></ul>	2024 - 2025
<b>Fiverr, Mechatronics Engineer</b> <ul style="list-style-type: none"><li>Scoped and delivered small engineering projects end-to-end: requirement clarification, scheduling/checkpoints, documentation, and delivery.</li><li>Coordinated expectations with international clients; prepared concise updates and final reports.</li></ul>	2024 - 2025
<b>Rocket Factory Augsburg, Battery &amp; Hardware Electronics Intern</b> <ul style="list-style-type: none"><li>Built prototypes, supported CAD modeling and assembly; documented results and communicated with interdisciplinary teams.</li></ul>	2022 - 2023

## SELECTED PROJECTS

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**Industrial Communication: Digitalization & Integration**

- Integrated sensors using Modbus, CAN, IO-Link aligned with the ISO/OSI model; produced clear wiring/communication documentation for repeatability.

**Robotics: 1. Tunnel Inspection Robot                      2. Automatic Warehouse Object-Tag Search Robot**

- Leading industry-collab design of an adaptive wall-crawling sewer robot
- Built a de-risked prototype and test plan; ran reviews and risk logs, enabling the team's go/no-go decisions.

**Application of Mechatronics System (with ifm): PLC & Systems Engineering**

- Implemented go-kart automation with Safety-PLC and CODESYS following the V-Model (VDI/VDE 2206). Prepared test plans, executed system tests, and summarized outcomes.

## ADDITIONAL INFORMATION

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- Technical Skills:** Mechatronics System Integration, Systems Engineering, Project Management, Robotics and Automation, CAD/CAM, Embedded System, Programming, 3D Printing.
- Languages:** Deutsch, English, Thai.
- Certifications:** Udemy, Coursera, Codecademy
- Awards/Activities:** Participated in the "[ROS Summer School](#)" as Tutor.