



PANITHI THUNGKAO

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SUMMARY

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

EDUCATION

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

WORK EXPERIENCE

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

SELECTED PROJECTS

Industrial Communication: Digitalization & Integration
<ul style="list-style-type: none">Integrated sensors using Modbus, CAN, IO-Link aligned with the ISO/OSI model; produced clear wiring/communication documentation for repeatability.
Robotics: Elliptical Sewer Inspection Robot (industry collaboration)
<ul style="list-style-type: none">Led industry-collab design of an adaptive wall-crawling sewer robotBuilt a de-risked prototype and test plan; ran reviews and risk logs, enabling the team's go/no-go decisions.
Automation (with ifm): PLC & Systems Engineering
<ul style="list-style-type: none">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

- 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:** Actively participated in the "ROS Summer School" as Tutor.