

HÀ ĐỖ



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Skills

■ **Programming languages:** C, C++, embedded C, Python, R, JavaScript, Nodejs, Html, CSS, VHDL
■ **Databases:** SQL Server, MongoDB ■ **Tools and Platforms:** Microsoft Office, Jira, Jenkins, Confluence, ROS2, Linux, Power BI ■ **Other skills:** Communication Skills, Customer Services, CI/CD, Scrum, Test Automation Frameworks, Agile Methodologies.

Work Experiences

Aion Power | Software Trainee
2024

Tuusula, Finland | *Nov 2023 – Feb*

- Assisted in LabVIEW software development, testing, and documentation.
- Contributed to the development of the company's software development environment and practices.
- Supported the implementation of the company's ISO9001 quality management system, ensuring compliance with standards and procedures.

Konecranes | Innovation Project Course

Hyvinkää, Finland | *Sept 2023 – December*

- Explored advanced industrial automation concepts using ESP32 microcontrollers, focusing on UART, WebSocket communication, and Wi-Fi data transmission.
- Collaborated with industry professionals from Konecranes to enhance real-world problem-solving skills and integrate IoT solutions.
- Designed and executed a comprehensive project demonstrating timer control and seamless data exchange, highlighting practical application of learned concepts.

Konecranes | Software designer – summer trainee

Hyvinkää, Finland | *May 2023 – August 2023*

- Software development of embedded crane control system board.
- Software testing of the control board in system and integration testing levels.
- Software documentation.
- Developing software for a safety-critical control system using embedded C within an agile international team.
- Enthusiastic entry-level embedded systems engineer with a foundation in memory management and testing methodologies for microcontroller units (MCUs) like STM32 F2 and F4. Demonstrated understanding in detecting memory leaks and supporting MCU platform upgradability. Proficient in manual and automated testing techniques, with a keen focus on crane simulators and real crane applications.

Education

University of Turku | Master's degree

Turku city, Finland | *August 2024 – present*

Major: Master of Robotics and autonomous systems

Relevant coursework: System Modelling and Synthesis with HDL, Statistical Data Analysis, Probabilistic Programming, Perception and Navigation in Mobile Robotics, Machine Learning for Mechanical Engineer, computer vision and sensor fusion.

Metropolia University of Applied Sciences | Bachelor's degree Vantaa city, Finland | Aug 2021 - June 2024

Major: Bachelor of Engineering in Smart IoT Systems

Thesis topic: "Simulating Robotic Precision: LabVIEW-Based Virtual Prototyping of a Smart Arm", grade: 4/5.

Oulu University of Applied Sciences | Bachelor's degree Oulu city, Finland | Aug 2019 - April 2021

Major: Bachelor of Engineering in web development

Studies transferred to Metropolia University of Applied Science.

Nong Lam University | Bachelor's degree Thu Duc city, Vietnam | August 2012 – Nov 2016

Major: Bachelor of Engineering in Geographic Information Systems

Projects

Energy Consumption Prediction for Ro-Ro Vessels (Machine Learning, Jupyter Notebook) | ([Link](#))

- Developed a machine learning model to predict ship energy consumption using sensor data.

Top U.S. YouTubers Analysis (Python, SQL, Power BI) | ([GitHub](#)) ([Demo](#))

- Data analysis and visualization of top YouTube channels in the U.S. using SQL and Power BI.

Simple Server and Client (Python, C++, ROS2) | ([Github](#)) ([Demo](#))

- Developed a basic client-server communication model in ROS2 using Python and C++.

Bayesian Probabilistic Programming (RStudio) | ([Link](#))

- Implemented Bayesian inference models for probabilistic data analysis.

Statistical Data Analysis (Python) | ([Link](#))

- Statistical analysis of living habits of individual persons and households.

System Modelling for Universal Counter (VHDL) | ([Github](#))

- Designed and implemented a digital counter system using VHDL.

Certifications and Languages

Aion ([Link](#)) | Konecranes ([Link](#)) | Swappie ([Link](#)) | Programming MOOC 2023 - Advanced Course ([Link](#)) | AWS Academy Graduate ([Link](#))

Vietnamese (Native), English (Excellent), Swedish (Beginners).