

CONTACT



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Joensuu, Finland

PATRIK KUKKONEN

COMPUTER SCIENCE GRADUATE

Recent graduate in Computer Science and Engineering with minors in Statistics and Russian language. Experience in robotics, data processing and analysis, and working with various programming languages and technologies. Experienced in working in teams on agile projects using Scrum. Studied and worked in international environments in Japan and Finland.

EDUCATION

Sep, 2021 – Sep, 2023

MASTER OF SCIENCE

University of Eastern Finland &
Toyohashi University of Technology

- Double Degree Program in Computer Science and Engineering
- Master's Thesis: "A Comparative Study of Pathfinding Algorithms for Post-Disaster Rescue Missions Using Unmanned Ground Vehicles"
- Internship in a Japanese AI company

Sep, 2018 – Sep, 2021

BACHELOR OF SCIENCE

University of Eastern Finland

- Minors: statistics and Russian language
- Tutor activity

REFEREES

Jun Miura
Professor
Toyohashi University of Technology
Toyohashi, Aichi,, Japan
jun.miura@tut.jp
Association: Master's thesis supervisor

WORK EXPERIENCE

Sep, 2023

MASTER'S THESIS – "A COMPARATIVE STUDY OF PATH FINDING ALGORITHMS FOR POST-DISASTER RESCUE MISSIONS USING UNMANNED GROUND VEHICLES"

University of Eastern Finland & Toyohashi University of Technology

- Research to discover the most suitable path finding algorithm for use in dynamic environments, particularly those induced by natural disaster scenarios such as earthquakes, floods, wildfires, etc.
- Conducted experiments in a computer simulation using Gazebo and ROS2 to create diverse dynamic scenarios. Tested and evaluated various path finding algorithms' effectiveness and success rates in these environments with an autonomous robot.

Jul, 2022 – Sep, 2022

SOFTWARE DEVELOPER INTERN

SenseTime Japan Ltd.

- Developed and implemented automation scripts for data extraction and preprocessing.
- Created functions for KPI calculation to improve lane line detection and object detection systems in autonomous vehicles.
- Utilized Python libraries for data analysis and visualization.

Mar, 2016 – Jun, 2016 & Aug, 2016 – Oct, 2016

TRAINEE

MediaSignal Communications Oy

- Managed web content using TYPO3.
- Conducted documentation and software translation.

SKILLS

Technologies:

Python (Pandas, NumPy, Matplotlib, SciPy...), SQL, ROS2,
HTML & CSS, Git, MS Office, Linux, macOS, Windows

Languages:

Finnish, English, Russian, Elementary Japanese