# JUHA HOVI, M.Sc. (Tech.)

juha-hovi.github.io | juha-hovi | Finnish

## Summary

Master of Technology graduate with demonstrated experience in robotics, programming, and artificial intelligence. Believes in continuous learning and improving, excellent communication and inter-personal skills.

## Education

**Doctoral Student** *Tokyo, Japan*
THE GRADUATE UNIVERSITY FOR ADVANCED STUDIES, SOKENDAI *Oct. 2019 - Current*

- Informatics, AI, Machine Learning

**Master of Science (Technology)** *Espoo, Finland*
AALTO UNIVERSITY *Jun. 2019*

- **Major:** Control, Robotics and Autonomous Systems

**Bachelor of Science (Technology)** *Espoo, Finland*
AALTO UNIVERSITY *Aug. 2016*

- **Major:** Automation and Systems Technology
- **Minor:** Computer Science / Software Engineering

## Experience

**National Institute of Informatics** *Tokyo, Japan*
TECHNICAL SPECIALIST / RESEARCH ASSISTANT *Jul. 2019 - Current*

- Research on ontology based systems for autonomous vehicles

**National Institute of Informatics** *Tokyo, Japan*
RESEARCH INTERN *Nov. 2018 - May 2019*

- Research on AI and machine learning for advanced driving assistance systems

## Skills

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|---|---|---|
| **Languages:** | Finnish - Native | Japanese - Basic |
| | English - Fluent | Swedish - Basic |
| **Programming:** | Python | C++ |
| | C | MATLAB |
| | CUDA | Parallel Programming |
| | PLC-Languages | Declarative Programming (ASP, constraint, etc.) |
| **OS:** | Windows | Linux |

## Projects / Publications

**Master's Thesis (JIST2019: The 9th Joint International Semantic Technology Conference)**
DATA-DRIVEN GENERATION OF RULES FOR ONTOLOGY-BASED DECISION MAKING SYSTEMS IN AUTONOMOUS VEHICLES

- Autonomous driving / Advanced Driving Assistance Systems (ADAS)
- Extraction of vehicle behavioral patterns from simulated data

**Remote User Motion Mapping for InMoov Open-Source Robot**

- Prototyping: Robotic telepresence through machine vision and physical systems

**Autonomous Mapping of Dynamic Environments**

- Autonomous Robotics: Mapping indoor areas with KUKA youBot

**Bachelor's Thesis**
RGB-D BASED SEGMENTATION METHODS

- Machine vision: Usage of depth data to complement color data in image segmentation