Kasper Grøntved

PH.D STUDENT

I am a researcher by trade and it shines through in everything I do; efficiency and execution are key. I am eager to develop tomorrow's robotic applications. I am intrigued by the challenges within robotics and the implementation of large-scale multi-robot systems in real-world scenarios.

HOW TO REACH ME

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PUBLICATIONS

K. Grøntved, U. Schultz, A. L Christensen (2022)
"*Fault-tolerant coordination for robot swarms operating in outdoor environments*"
In preparation

WORK EXPERIENCE

Systems Engineer

A2I Systems A/S | jun. 2020 to 2022

- Machine learning and data analysis
- Object-oriented software development
- DevOps
- Agile Software Development

Student Programmer

A2I Systems A/S | Nov. 2018 to Jun. 2020

- Developing test frameworks for integration and unit testing
- Agile Software Development

EDUCATIONAL AND PROFESSIONAL SKILLS

- Machine learning comprising of reinforcement learning and convolutional neural networks.
- Multi-agent systems
- Programming languages and frameworks:
  - C/C++
  - Python
  - ROS
  - PyTorch & Keras
  - Java
  - Bash
  - SQL
  - MatLab
  - VHDL
- Statistics and data analysis
- Embedded software design and FreeRTOS
- Experience in control/programming of industrial robots
- Optimization and Control Engineering
- Docker and DevOps
- Agile software development
- Robot electronics
- Linux based systems
- Proficient in LaTex

EDUCATION

University of Southern Denmark

PhD student in swarm robotics 2022 to present
Supervisors: Anders Lyhne Christensen & Ulrik Pagh Schultz

- Thesis Title: Cooperative Control of Multirobot Systems in Real-World Applications

University of Southern Denmark

Master of Science in Robotic Systems
(Advanced Robotics Systems) 2018 to 2020
Supervisor: Anders Lyhne Christensen

- Thesis Title: "Multi-Agent Decentralised Coordination using CNRL for Industrial Applications"
- Thesis Grade: 12/12
- Average Grade: 10.8/12

University of Southern Denmark

Bachelor of Science in Robotic Systems 2015 to 2018

- Thesis Title: Semantic segmentation using a deep neural network for pose estimation of a rigid object