ThomasKimble

MSc in Robotics and Space Technologies

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Looking for an robotics software engineering internship for 2021.

Education

MSc in Robotics

École Polytechnique Fédérale de Lausanne

Sep 2019 - Ongoing | Lausanne, Switzerland

- Major in Robotics with Mobile Robotics orientation
- Minor in Space Technologies

Bsc in Microengineering

École Polytechnique Fédérale de Lausanne

Sep 2015 - Jul 2019 | Lausanne, Switzerland

- Machining course including in curriculum

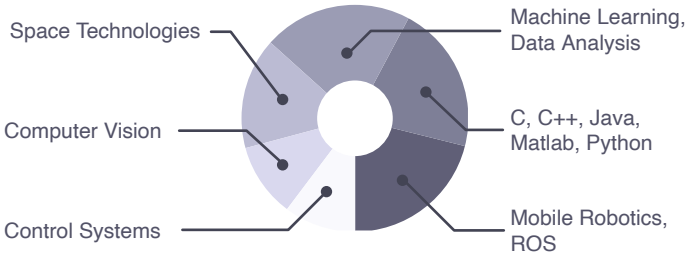
French Baccalauréat Général

Collège du Léman

Sep 2001 - Jun 2015 | Versoix, Switzerland

- Scientific orentation
- Highest distinction

Hard Skills



Soft Skills

Studies

Work Ethic | Problem Solving | Curiosity | Alternative Thinking | Presentation Skills | Group Work | Leadership | Patience

Music

- Performed guitar, drums and piano as part of multiple bands, orchestras as well as solo

Creativity | Stage Presence | Attention to Detail

Languages

English and French
German

Projects

Robotics

Wheeled Robotics

Sep 2019 - Jul 2020 | Lausanne, Switzerland

- Implementation of computer vision, path planning, global and local navigation, and filtering for use of multiple Thymio robots.
- Development of a line following algorithm using a PID controller with the e-Puck 2 robot – Nominated for the GCtronic Award.
- Design of a two wheel robot in ROS with implementation of way-point navigation and obstacle avoidance.

Aerial Robotics - Laboratory of Intelligent Systems

Sep 2020 - Feb 2021 | Lausanne, Switzerland

- Development of a model for predictive drone swarms with limited field of view.
- Finding optimal swarm and field of view parameters for collision free trajectory generation with up to 9 agents

Embedded Systems

Sep 2019 - Feb 2020 | Lausanne, Switzerland

- Development of a game on the Nintendo DS microprogrammed embedded system.
- Knowledge of the system architecture and game design.

Data Science

Applied Data Analysis

Sep 2020 - Feb 2021 | Lausanne, Switzerland

- Scientific paper replication and extension.
- Use of regression analysis, supervised learning and applied machine learning to train and analyse datasets.
- Creation of friendship prediction models with Foursquare User's social networks and check-in location data.

Intelligent Agents

Sep 2019 - Dec 2019 | Lausanne, Switzerland

- Development of multiple agents for optimisation of a pick-up and delivery problem.
- Optimal path planning and development of a central coordination for multi-agent systems.

Space Technologies

Constellation of High Energy Swiss Satellites

Sep 2020 - Feb 2021 | Lausanne, Switzerland

- EPFL Spacecraft Team's CHESS Mission Electrical Power System pole leader.
- Understanding of a Space Mission and implementing an EPS within a CubeSat platform.