

THOMAS OLIVER KIMBLE

MSc in Robotics and Space Technologies

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Applying for an engineering internship starting February 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 included in curriculum

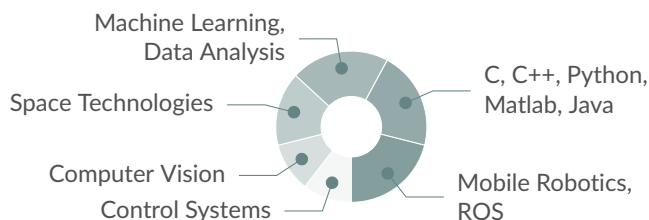
French General Baccalaureate

Collège du Léman

📅 Sep 2001 – Jun 2015 📍 Versoix, Switzerland

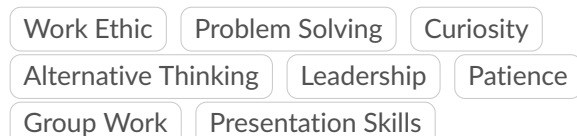
- Scientific Orientation
- Highest Distinction

HARD SKILLS



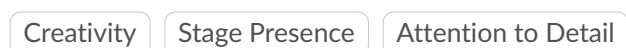
SOFT SKILLS

Studies



Music

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



LANGUAGES

English and French
German



PROJECTS

Robotics

Wheeled Robotics

📅 Sep 2019 – July 2020 📍 EPFL, Lausanne, Switzerland

- Implementation of image processing, 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 waypoint navigation and obstacle avoidance.

Aerial Robotics - Laboratory of Intelligent Systems

📅 Sep 2020 – Ongoing 📍 EPFL, Lausanne, Switzerland

- Development of a model for predictive drone swarms with limited field of view.
- Automatic optimisation of swarm parameters and testing of the model in Gazebo.

Embedded Systems

📅 Sep 2019 – Jan 2020 📍 EPFL, 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

📅 Feb 2020 – Ongoing 📍 EPFL, Lausanne, Switzerland

- Data analysis scientific paper replication, and extension.
- Use of regression analysis, supervised learning and applied machine learning to train and analyse datasets.

Intelligent Agents

📅 Sep 2019 – Dec 2019 📍 EPFL, 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

📅 Feb 2020 – Ongoing 📍 EPFL, 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.