Felix Graule

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Schaffhauserstrasse 264 · 8057 Zürich, Switzerland
Born 17 / 02 / 1996 · Swiss & German

Education

02/2018 - 05/2020	**MSc in Robotics, Systems and Control, ETH Zurich, Switzerland** *GPA: 5.7 / 6, Subjects: Machine Learning, Probabilistic AI, Vision, Control, Estimation, Data, UAVs* *Autumn Term 2019: Master Thesis at Imperial College London, United Kingdom*
09/2014 - 09/2017	**BSc in Electrical Engineering and Information Technology, ETH Zurich, Switzerland** *GPA: 5.1 / 6, Subjects: Calculus, Physics, Computer Science, Networks and Circuits, Computer Engineering, Signals and Systems, Control Systems, Digital Signal Processing, Bioelectronics* *Spring Term 2017: Exchange Semester at Nanyang Technological University, Singapore*
08/2010 - 07/2014	**Swiss Matura, Kantonsschule Schaffhausen, Switzerland** *GPA: 5.55 / 6, Subjects: Mathematics, Chemistry, Biology, Computer Science and Electronics*

Relevant Work Experience

08/2020 - Present	**Associate, Boston Consulting Group, Switzerland**
05/2020 - 08/2020	**Research Assistant, Imperial College London, United Kingdom** *Continuation of Master Thesis: Implemented drift-free, dense visual MAV localisation method*
10/2018 - 12/2018	**Visiting Associate, Boston Consulting Group, Switzerland** *Valuated spectrum for telco 5G auctions in Canada and Germany using network simulations* *Self-managed and presented modules while coordinating with internal and client stakeholders*
09/2017 - 02/2018	**Software Engineering Intern, Supercomputing Systems, Switzerland** *Implemented multi-node, single-frequency alerting network for emergency services in Austria*

Relevant Projects

05/2020	**Master Thesis, Imperial College London, United Kingdom** *Multimodal Feedback Control for Aerial Manipulation* *Supervised by Dr. Stefan Leutenegger and Prof. Dr. Margarita Chli, grade 6* *Fully funded by Zeno Karl Schindler Foundation*
08/2019	**Semester Thesis, ETH Zurich, Switzerland** *Towards Robust Cross-Spectral Optical Thermal SLAM onboard of a fixed-wing UAV* *Supervised by Timo Hinzmann, Dr. Nicholas Lawrance, Prof. R. Siegwart, grade 5.75*
06/2018	**Course Project, ETH Zurich, Switzerland** *Rolling-Shutter Aware Differential Structure from Motion and Image Rectification* *Supervised by Dr. Oliver Saurer, grade 6*
05/2017	**Research Project, Nanyang Technological University, Singapore** *Exploring Gesture Recognition using Deep Learning based on Google Soli* *Supervised by Prof. Junsong Yuan and Liuhao Ge, ungraded*
12/2014	**High-School Final Thesis, Kantonsschule Schaffhausen, Switzerland** *pySpenser: Development of a Cocktail Robot* *Received highest award at National competition of Swiss Youth in Science, EPF Lausanne*

Publications

06/2020	D. Tzoumanikas *et al*, «Aerial Manipulation Using Hybrid Force and Position NMPC Applied to Aerial Writing», published in Robotics: Science and Systems
03/2016	F. Graule, «Development of a Cocktail Robot», published in Junge Wissenschaft

Language and Programming Skills

Proficient	German, English	C++, OpenCV, Python, MS Office, VBA, LaTeX
Good	French	Java, Tensorflow, Alteryx
Beginner	Chinese, HSK2 Certified	JavaScript

Extracurricular Activities

04/2018 - Present Board Member and Fundraising & IT Lead, BuyAware, Switzerland
Leisure: Scuba Diving (SSI Open Water certified), Sailing (Licensed), Football (SC Wipkingen)