# *Curriculum Vitae*

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**Looking for Robotics Perception/Software Position in a startup**

## Education

Sep. 2015 – Exp. Sep.2018          **ETH Zurich, Switzerland**
- Master degree, Majored in "Robotics, Systems and Control"
- 5. Semester, Current Grade 5.5 /6

Oct. 2011 – Sep. 2015          **RWTH Aachen University, Germany**
- Bachelor degree, Majored in Mechanical Engineering
- Final Grade: 1.7/1
- Specialized in Automotive Engineering
- Thesis: Accuracy Simulation for parallel robots(1.3)

## Project Experiences

Nov. 2017 – Sep. 2018          **Data61 Robotics Group, CSIRO, Brisbane Australia**
- Internship and Master Thesis in Perception team
- Map sharing among aerial and ground SLAM capable platforms with laser sensor
- Implementation of photometric constraint in a SLAM optimization
- Supervised by Paulo Borges, co-supervised from Autonomous Systems Laboratory in ETH

Apr. 2016 – Oct.2017          **Agile & dexterous Robotics Lab, ETH Zurich**
- State and Inertia Parameter estimation of Quadruped "HyQ"
- Integrate redundant sensor information and solve Maximum Likelihood problem after properly modeling the system
- Tested in ROS simulation, programming done in C++.
- Supervised by Michael Neunert

| Apr. 2016 – Jun. 2016 | **Computer Vision & Geometry Group, ETH Zurich** |
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- Reconstructing 3D scene using tetrahedral grid, using "ray tracing" techniques to optimize the outcome of the min-cut algorithm.
- Tested on real data, programming done in C++ with CGAL library. Available on git.
- Supervised by Nikolay Savinov

## Working Experiences

| Mar. 2017 – Oct.2017 | **Flyability SA, Switzerland** |
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- Internship in Control Algorithms for UAV
- System Identification, Control Algorithms design, Sensor Integration, Building Prototypes
- Setup simulation with ROS Gazebo and Simulink
- Experimenting with 2D laser sensors, flow sensors, lidar rangefinders and open source flight controller under ROS

| Sep. 2016 – Dec.2016 | **Institute for Machine Learning, ETH** |
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- Teaching Assistant in Class "Machine Learning"

| Sep. 2014 – Mar.2015 | **General Motor Europe Opel Ruesselsheim, Germany** |
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- Internship at Aero/Thermal Engineering department

## Computer Skills

- Development Environment: Linux OS, ROS, Embedded
- Version control: git
- GPU programming with OpenCL and cluster
- Programming Language: C++(11), python, MATLAB
- Software: ANSYS(CFD), Simulink, NX(CAD)
- **Core**: C++ 11 Programming in ROS

## Language Skills

- English:  fluent, TOEFL iBT (107/120)
- German:  fluent, DSD- Ⅱ Prüfung Niveau C1
- Chinese:  native speaker