

# Constantin Stamatiadis

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## EDUCATION

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| 2017-2020 | <b>M.Sc Robotics, Systems and Control</b><br>ETH Zürich, Zürich (ZH), Switzerland<br>Focusing on Robotics, Machine Learning and Computer Vision |
| 2014-2017 | <b>B.Sc Electronic Engineering</b><br>Politecnico di Torino, Turin (TO), Italy  |
| 2015-2016 | <b>B.Sc Information Technology Engineering (PolitTong Exchange Program)</b><br>Tongji University, Shanghai, China                               |
| 2009-2014 | <b>High School Diploma in Scientific Studies</b><br>Liceo Scientifico, Leonardo Cocito, Alba (CN), Italy  |

## WORK EXPERIENCE

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| Oct 2019-Mar 2019 | <b>Master Thesis Student</b><br>ABB AG, Baden(AG), Switzerland<br>Thesis title: "Data-Driven adaptive MPC using reinforcement learning".  |
| Mar 2019-Aug 2019 | <b>Autonomous Driving Intern</b><br>Volkswagen AG, Wolfsburg (WOB), Germany<br>I implemented and evaluated methods for improving bounding box regressors with deep learning. Moreover, I evaluated application aware loss functions.  |
| Mar 2017-Jun 2017 | <b>Intern</b><br>Istituto Superiore Mario Boella (ISBM), Turin (TO), Italy<br>I implemented a scalable UWB-based localisation system. Using commercial and in-house UWB-based wearable devices in which a scalable localisation system had to be implemented in C language exploiting previous software developments. |
| Oct 2016-Feb 2017 | <b>Teaching Assistant</b><br>Politecnico di Torino, Turin (TO), Italy<br>Helping students to solve the coding exercises during the computer science tutorials.  |
| Aug-Sep 2014      | <b>Intern</b><br>Resources Global Professionals, Dublin, Ireland<br>I supported the Operations Manager and the Recruitment Director in their daily task.  |

## SKILLS

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Programming: C, Python, ROS, basic Bash

Software/API: Tensorflow, PyTorch, Matlab, OpenCV, Final Cut Pro

Generic Computer Skills: MacOS, Linux

Personal Skills: Organised, Analytic, Consistent, Realistic, Communicative, Self Motivated

## PROJECTS

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Sep 2018-Dec 2018 Semester Project, Automatic Control Lab, ETH Zürich

I was involved in the development of a snooker playing robot, with the goal of beating a professional player. My tasks involved the computers vision and state estimation part of the project.

Apr 2018-Jun 2018 Machine Perception Project

Implementation of a Deep Neural Network for Eye Gaze estimation. The network was implemented in TensorFlow. Different architecture were used (VGG, DenseNet).

May 2018- Apr 2018 Recursive Estimation Project

A Hybrid Extended Kalman Filter was implemented to track a boat. Moreover, a Particle Filter was implemented in order to track two vacuum cleaning robots,

Dec 2017 Dynamic Programming Project

The dynamic programming algorithm was used in order to find the policy which minimises the time steps needed to guide a ball through a maze. The problem was solved in different approaches: Value Iteration, Policy Iteration and Linear Programming.

Sep 2017- Dec 2017 Machine Learning Project

Classical Machine Learning was used for different medical task. Regression on MRI images to find a person's age. Classification of both MRI and EKG to determine health of a person.

## LANGUAGES

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Mother tongues: German, Italian

Other Languages: English Full Working Proficiency IELTS 8

Chinese Elementary Proficiency HSK 2

## HOBBIES & INTERESTS

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Swimming, Travelling, Football, Cooking and Music

## ADDITIONAL INFORMATION

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Volunteering: Organisation of local summer camp for primary and middle school children.