

# Constantin Stamatiadis



eMail : constantin.stamatiadis@gmail.com

phone : +41 787347275

Website : cstamatiadis.github.io

## EDUCATION

---

- 2017- M.Sc Robotics, Systems and Control, 5.31/6  
ETH Zürich, Zürich (ZH), Switzerland  
Focusing on Robotics, Machine Learning and Computer Vision
- 2014-2017 B.Sc Electronic Engineering, 110/110 Cum Laude  
Politecnico di Torino, Turin (TO), Italy
- 2015-2016 B.Sc Information Technology Engineering (Politong Exchange Program)  
Tongji University, Shanghai, China
- 2009-2014 High School Diploma in Scientific Studies, 93/100  
Liceo Scientifico, Leonardo Cocito, Alba (CN), Italy

## WORK EXPERIENCE

---

- Oct 2019- Master Thesis Student  
ABB AG, Baden(AG), Switzerland  
Thesis title: "Adaptive models for MPC using reinforcement learning"
- Mar 2019-Aug 2019 Autonomous Driving Intern  
Volkswagen AG, Wolfsburg (WOB), Germany  
The aim of the internship is to implement, analyse and evaluate deep learning methods for autonomous driving. I'm working on object detection and on how to make the detectors focus on what part of the scene is relevant for the autonomous driving task.
- Mar 2017-Jun 2017 Intern  
Istituto Superiore Mario Boella (ISBM), Turin (TO), Italy  
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 Teaching Assistant  
Politecnico di Torino, Turin (TO), Italy  
Helping students to solve the coding exercises during the computer science tutorials.
- Aug-Sep 2014 Intern  
Resources Global Professionals, Dublin, Ireland  
I supported the Operations Manager and the Recruitment Director in their daily task,

## SKILLS

---

Programming: C, Python, ROS

Software: Matlab, Simulink, NI Multisim, OmniGraffle, Final Cut Pro, iMovie

Generic Computer Skills: MacOS, Linux, Good Knowledge of Office and iWork suites

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

## PROJECTS

---

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

I'm involved in the creating of a snooker playing robot, with the goal of beating a professional player. My tasks involve the computers visions 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

---

Mother tongues: German, Italian

Other Languages: English Full Working Proficiency IELTS 8

Chinese Elementary Proficiency HSK 2

## HOBBIES & INTERESTS

---

Swimming, Travelling, Football, Cooking and Music

## ADDITIONAL INFORMATION

---

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