Constantin Stamatiadis

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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** (PolitTong 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: "Data-Driven adaptive MPC using reinforcement learning".
Mar 2019-Aug 2019	**Autonomous Driving Intern**
	Volkswagen AG, Wolfsburg (WOB), Germany
	I implemented and evaluated methods for improving bounding box regressors with deep learning. Moreover, I evaluated application aware loss functions.
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/API:	Tensorflow, PyTorch, Matlab, Simulink, NI Multisim, OmniGraffle, Final Cut Pro
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 was involved in the creating 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

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.