

Constantin Stamatiadis

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EDUCATION

MSc. Robotics, Systems & Control

Zurich, Switzerland | Jun 2020

ETH ZURICH

Selected Coursework: Advanced Machine Learning, Machine Perception, Vision Algorithms for Mobile Robots, Model Predictive Control, Dynamic Programming

BSc. Electrical Engineering

Torino, Italy | Jul 2017

POLITECNICO DI TORINO

Teacher Assistant (TA): Intro to Programming

Selected Coursework: Automatic Control Systems, Digital Electronics, Applied Electronics, Signal Processing, Advance Programming

Exchange Year Electrical Engineering

Shanghai, China | Jul 2016

TONGJI UNIVERSITY

WORK EXPERIENCE

BOSCH | RESEARCH & DEVELOPMENT MANAGEMENT TRAINEE

Stuttgart, Germany | Oct 2020 – Present

2-year multi-assignment fast track program for high potential associates.

Focus: Autonomous Systems

- Assignment 1: **Robotics Software Engineer in Corporate Research**
 - i Development of Robotics simulation tools for pre-development of a multi-camera robot system.
 - ii Development of Robotics navigation tools based on advanced control techniques (Model Predictive Control)
 - iii **Main tools:** C++, ROS2, Casadi, Ipopt, Gazebo
- Assignment 2: **Robotics Technology Manager for Intra-logistics Robotics**
 - i Market and State of the Art analysis in Industrial mobile robotics
 - ii Interviews with potential and current customers
 - iii Interview evaluation, assessing feasibility from both technological as well as profit/impact perspective
 - iv **Main tools:** Design Thinking, UX, Robotics know-how
- Assignment 3: **Software Engineer Machine Learning in Level 4 autonomous driving**
 - i Deep Learning (Graph Neural Networks) based traffic agent **intent** prediction.
 - ii Data collection, data preparation & data processing
 - iii **Main tools:** C++, ROS, Tensorflow, Python, Bash

ABB AG | MASTER THESIS STUDENT

Baden, Switzerland | Oct 2019 - Mar 2020

- Development of data-driven model predictive control framework
- Model-identification through Neural Networks (Variational Autoencoders & Recurrent Neural Networks)
- MPC controller implementation in Casadi and Ipopt
- **Main tools:** PyTorch, Python, Bash

VOLKSWAGEN AG | AUTONOMOUS DRIVING INTERN

Wolfsburg, Germany | Mar 2019 – Aug 2019

- Work on novel approaches to fuse Computer Vision and Control, through new bounding box regressors as well as application-aware losses.
- **Main tools:** Tensorflow, Python, Bash, Carla (Simulation Environment)

ISTITUTO SUPERIORE MARIO BOELLA | STUDENT INTERN

Torino, Italy | Mar 2017 – Jun 2017

- Implementation of a scalable UWB-based localization system.

RESOURCES GLOBAL PROFESSIONALS | STUDENT INTERN

Dublin, Ireland | Aug 2014 – Sep 2014

- Supported the Operations Manager and the Recruitment Director in their daily task.

SKILLS

Programming Languages: C, C++, Python, Bash

APIs: PyTorch, Tensorflow, ROS 1 & 2, OpenCV

Technology: Git, AWS, Azure, Docker, \LaTeX

Programming Languages: Italian (Mother tongue), German (Mother tongue), English (Fluent), Chinese(Basic), Spanish (Intermediate)