

PIETRO GRIFFA

Robotics Engineer

CONTACT

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EDUCATION

2018 - Present

Master of Science
Robotics, Systems and Control
ETH Zurich

2015 - 2018

Bachelor of Science
Mechanical Engineering
Politecnico Milano

SKILLS

Python Deep Learning Docker
Linux MATLAB ROS C
Embedded Systems

SOFT SKILLS

Problem solving Communication
Leadership Teamwork

LANGUAGE

Italian *mothertongue*
English *advanced*
Deutsch *basic*

INTERESTS

Travelling Reading Cycling
Skiing Soccer Scuba diving

PROFILE

Born in January 1997 in Milano, I'm currently a Master Student at ETH Zurich. I have a passion for Robotics and related technologies, such as Computer Vision and Deep Learning, enriching my professional background with intense readings about human behaviours and management. I love cooperating in dynamic, heterogeneous, and highly-motivated teams, to which I can offer my best qualities, challenging others and myself for continuous improvements. I have an international experience gained in practice and studies, an orientation to problem solving, and a strong attitude to flexibility and creative thinking.

EXPERIENCE



Duckietown, Teaching Assistant

Feb 20 - Present

📍 Zurich, Switzerland

Teaching Assistant at ETH Zurich for Duckietown. Developed new functionalities for the platform, and was as part of the team organizing the 5th edition of AI-DO in conjunction with NeurIPS 2020.



PERCRO, Visiting Researcher

Sep 18 - Jan 19

📍 Pisa, Italy

Worked with the PERceptual RObotics lab at Sant'Anna di Pisa to design and prototype a novel end-effector for tele-ultrasonography.



OOI Optimized Oilfield, Intern

Aug 17 - Oct 17

📍 Calgary, Canada

Working side by side with the Company CEO, I experienced managing a company and designing new products in the area of casing gas compressors.



Aspen Tech, Intern

Aug 16 - Oct 16

📍 Houston, Texas

Development of customized demos of the Company software solution, for complex systems predictive maintenance, mainly for the oil&gas market.

PROJECTS

Tactile Enabled Robotic Grasping

Supervisors: Carlo Sferrazza

Development of novel grasping policies and applications leveraging the integration of an innovative vision-based tactile sensor with a state of the art robotic system.

Object-aware Active 3D Perception

Supervisors: Margarita Grinvald, Julian Förster

Design of a novel object-aware Next Best View planner for a multi-object scenario, to autonomously generate scanning trajectory for reconstructing high quality object-level maps efficiently.

Adaptive Lane Following

Supervisors: Ph.D. Jacopo Tani

Design of an Adaptive Controller to calibrate on the fly a scaled autonomous vehicle. This was developed and tested on the Duckietown platform.

🌐 github.com/duckietown-ethz/proj-lf-adaptive

Kinematic optimization of an end-effector for tele-ultrasonography

Supervisors: Ph.D. Alessandro Filippeschi, Ph.D. Carlo Alberto Avizzano

Design and kinematic optimization of an end-effector for a COTS robotic arm (UR5), to guarantee optimal functionality during tele-operated ultrasonography.

📖 The International Conference of IFToMM ITALY, 2020