FILIPPO GRAZIOLI

RESEARCH ENGINEER
BIOMEDICAL AI
NEC LABORATORIES EUROPE

ABOUT

26.10.1992

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Heidelberg, Germany

flpgrz@outlook.com

LANGUAGES

Italian
MOTHER TONGUE

English
C2

German
C1

Spanish
A2

EDUCATION

10/2017 - 06/2018
Modena, Italy
University of Modena and Reggio Emilia
PHD (NOT COMPLETED) IN COMPUTER VISION

10/2014 - 03/2017
Turin, Italy
Politecnico di Torino
M.SC. IN AUTOMOTIVE ENGINEERING CUM LAUDE

09/2015 - 10/2016
Aachen, Germany
RWTH Aachen University
ERASMUS+ PROGRAMME

09/2011 - 10/2014
Ferrara, Italy
University of Ferrara
B.SC. IN MECHANICAL ENGINEERING CUM LAUDE

SELECTED PUBLICATIONS

- "Face Verification from Depth using Privileged Information", The 29th British Machine Vision Conference (BMVC), 2018
- "Learning to Generate Facial Depth Maps", The 6th International Conference on 3D Vision (3DV), 2018

WORKING EXPERIENCE

07/2020 - Present
Heidelberg, Germany

NEC Laboratories Europe
RESEARCH ENGINEER
BIOMEDICAL AI

- Graph-based machine learning
- Multimodal learning
- Microbiome research
- Neoantigen prediction for cancer immunotherapy
- Software engineering

07/2018 - 07/2020
Abstatt, Germany

Bosch Engineering
SOFTWARE ENGINEER
PERCEPTION

- Perception algorithms for ADAS and autonomous driving
- Road sign recognition
- ADASIS
- C++ programming for monocular cameras
- ROS prototype development

10/2017 - 06/2018
Maranello, Italy

Ferrari
VISITING RESEARCHER
COMPUTER VISION

- Deep learning and computer vision
- Road scene understanding/segmentation and object detection
- Driver monitoring, hand detection, body pose estimation
- Time-of-flight depth images

05/2017 - 09/2017
Aachen, Germany

RWTH Aachen University Chair of Software Engineering
GRADUATE RESEARCH FELLOW

- Model-based software development for E-vehicles
- Driving simulators for autonomous vehicles
- Software testing of UML/SysML models

06/2016- 02/2017
Aachen, Germany

RWTH Aachen University Institute of Automotive Engineering (IKA)
STUDENT RESEARCH ASSISTANT
AUTONOMOUS DRIVING

- Master thesis: "Development of a Driver State Detector for Autonomous Vehicles". Design of a system able to measure the driver's level of visual awareness. The project involved Matlab/Simulink software development of machine learning algorithms and the creation of a dataset
- Design and execution of empirical tests in driving simulators and on test tracks. Research activities in cooperation with psychologists in the fields of situation awareness, driver behavior understanding and autonomous driving

11/2015 - 02/2016
Aachen, Germany

FEV GmbH
INTERN
OPTIMIZATION, SIMULATION

- Simulations of performances and energy consumption of hybrid vehicles, Matlab/Simulink modeling of the vehicles and optimization of the operating strategy.

02/2014 - 06/2014
Ferrara, Italy

University of Ferrara
STUDENT RESEARCH ASSISTANT
WIND ENERGY & TIME SERIES ANALYSIS

- Bachelor thesis: "Vehicle-generated Turbulence: An Alternative Source of Energy". A study meant to investigate the feasibility of the harvesting of the vehicle-generated turbulences by means of turbines installed on the highways

SELECTED SKILLS & TOOLS

- ML/DL: PyTorch, Tensorflow, Keras, Scikit-learn
- Computer vision / robotics: OpenCV, ROS
- Coding: C++, Python, Matlab
- Graphs: Neo4j, RedisGraph, DGL, Networkx
- Docker, Git, Scrum, Jira, GitLab

INTERESTS

- Music: Bossa Nova, Gipsy Jazz, Blues
- Cinema & Photography
- Latin American literature
- Languages and cultures
- Physics and neuroscience