Paolo De Petris
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Skills

Programming
C, C++
Matlab/Simulink
Python
ROS

Software
Gazebo
Blender
GitHub
Px4
OMPL
PhotoScan
Office

Others
Product optimization
Soldering
Drone building
Prototyping

Hobbies & Interests

Sports: gym, most of open-air sports, kayak
Music: guitar playing, music composition, member (tenor) of the choir group Vox Viva
Social: hang out and meet new people, possibly not from my country

Education

- Master in High Apprenticeship in "ICT and Advanced Design" – in progress
  (2 years - University of Turin)

- Master's Degree in Mechatronic Engineering
  (2 years - Polytechnic University of Turin)

- Bachelor's Degree in Telecommunications Engineering
  (3 years - Polytechnic University of Turin)

Employment

Company WpWeb srl   **Oct 2017 – now**

Project Manager / Robotics Engineer and Developer
- Analyse most of the current state of the art visual and visual-inertial algorithm like ORB-SLAM, ORB-SLAM2, VINS-Mono, OKVIS, LSD-SLAM, msckf_vio, ROVIO, SVO, SVO2
- Analyse and extend most of the current state of the art 2D Lidar SLAM algorithms like Hector Mapping, Gmapping, Google Kartographer.
- Creation and test of quadrotor, tunnel and scenario models in simulated environment (Gazebo) to test path planning algorithms.
- Research on multiple sensors fusion using KFs, EKFs and UKFs.
- Research on multi-cameras and camera-IMU calibration and synchronization.
- Common low budget stereo cameras testing and use, like the Optor Visual-Inertial Sensor, MyntEye Camera.

Company Baravan Restaurant   **May 2016 – May 2017**
Waiter/ Chef Helper

- Table service
- Take customer orders
- Clean at the end of the evening