

## Paolo De Petris

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Torino (TO) - Italy  
15/01/1994  
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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  
Handcrafts

## Hobbies & Interests

**Sports:** rowing and kayak,  
gym, most of open-air sports

**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"  
(2 years - University of Turin) – in progress
- Master's Degree in Mechatronic Engineering  
(2 years - Polytechnic of Turin)
- Bachelor's Degree in Telecommunications Engineering  
(3 years - Polytechnic of Turin)

## Employment

**Company: WpWeb srl**

**Oct 2017 – now**

### Project Manager / Robotics Engineer and Developer

- Analyse and implement most of the current state of the art visual and visual-inertial algorithms (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 (Hector Mapping, Gmapping, Google Kartographer).
- Creation and test of self-made uavs, tunnels and scenarios in a simulated environment (Gazebo) to test path planning algorithms.
- Research on multiple sensors fusion (KFs, EKF and UKFs).
- Research on multi-cameras and camera-IMU calibration and synchronization.
- Common low budget stereo cameras testing and usage (Optor VI Sensor, MyntEye).
- Implementation of new algorithms and strategies for featureless tunnel-shape environments with the purpose of inspection and 3D reconstruction.

**Company: Baravan Restaurant**

**May 2016 – May 2017**

### Waiter/ Chef Helper

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

Web Page: <https://tiralonghipol.github.io/poldepetris/>