

# PASQUALE POMETTI

SOFTWARE DEVELOPMENT ENGINEER / SHANGHAI

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## Summary

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I am a passionate, self-motivated Software Engineer with experience in all the processes of software development lifecycle, including performance, functional, integration and system for **Aerospace** and **Automotive** application. I am a supportive and enthusiastic team player dedicated to processes optimization and efficiently resolving project issues.

Easily adapt to a wide range of contexts, I am an addicted traveler and inner lover of multicultural contexts.

## Skill Highlights

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- Agile/Scrum Methodology
- C/C++, Matlab&Simulink, **Ada**, XML
- Safety Critical & Real time Application
- Hardware and Software Architecture

## Language

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- Italian: Native
- English: Professional Working
- Chinese: Intermediate

## Work Experience

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**Software Engineering Manager and Team Leader**  
**Shanghai**

Oct 2019 to Present

**Magelec Propulsion Ltd,**

Responsible for the development of software strategy and algorithm of **PMSM controller** for **Race-Motorsport** Applications:

- Managing the international software development team with 5 engineers (2 in Shanghai and 3 in Italy)
- Following the entire **SDLC**, from the specification given by customer/internal, through the system design, system and SW implementation to final verification and validation
- Being Responsible of the development for **APSW** and **BSW**, including motor control functions (FSM, Torque/Speed control loop, Damping Compensation, MTPA, Flux Weakening, FOC, SVPWM, etc) and **driver** modules ( CAN driver, SPI, EEPROM, ADC, PWM)
- Completed the detailed design of APSW using MBD and C Language approach
- Expertise in **Communication Protocol** and SW platform integration (CAN, J1939, XCP, UDS)
- Being the main contact with worldwide software supplier companies and lead the **software development plan** (MSProject, Gantt Chart)
- Being responsible for **Configuration** and **Requirement management** (SolarWind Server/ SVN/Jira)
- Expertise in Automotive SW standards (AUTOSAR Architecture, ASPICE)
- Testing, debugging and mastering in knowledge of Vector Tools and Lauterbach debugger

**AW609 FCS Software Engineer****Leonardo Helicopters, AgustaWestland, Milan, Italy**

Jan 2019 – Oct 2019

**AW609 Tiltrotor Engineering Team** (Flight Control System FCS) – Helicopter Division (On behalf of TXT e-Solution Spa):

- Rehosted of the **Flight Control System** SW on a new hardware architecture
- Had been involved in software development (under **DO-178C**) of the **Development Test System** (DTS), starting from system specification requirement, design the software specification requirement to software implementation
- Helicopter **Integration RIG Test** and **Full Flight Simulator**, involved in debugging, testing, problem reports and code-review
- Embedded software development based on multi-programming technique – C/C++, Python, Ada and XML
- Expertise in the knowledge of **Configuration Management** tool (Serena PVCS dim.) and **Requirement tool** (Rational Doors) through the daily usage and internal course

**Avionic Software Engineer****Txt e-Solution, Milan, Italy**

Sep 2018 – Oct 2019

**Aerospace & Defense Division** – Military based software design for safety critical application:

- **Verification** and **Validation** process of SW development under **DO-178** standard for safety assessment
- Experienced in **Agile** development methodology and carried out with the full support of the team
- Software development activity for **Flight Management System** (FMS) development support for Civil and Military application
- Expertise usage of **Ada, C/C++**, Model Based Design and UML programming techniques during the daily development activities
- Notions of project management, risk management and configuration management

**Researcher-Internship****Electric Power Research Institute, Nanjing, China**

Sep 2017 – Feb 2018

- Master of science thesis research on Diesel Gen-Sets optimization in electric powered ship for efficiency improvement
- Knowledge of Chinese electricity market

**Education**

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2016 – 2018 Master of Science: Electrical Engineering

**Xi'an Jiaotong University, Xi'an, China**

2015 – 2018 Master of Science: Electrical Engineering

**Politecnico di Milano, Milan, Italy**

2012 – 2015 Bachelor Degree: Electrical Engineering

**Politecnico di Milano, Milan, Italy****Additional Experience**

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**Personalized Programming Course C/C++**

Nov 2018

Development of C and C++ language in Automotive and Aerospace Application with knowledge of machine learning

**External Consultant for “World Federation of Engineering Organization”**

Oct 2015

Organization and planning for the WFEO event in Rome 2017 in collaboration with *Fondazione Studi del Lavoro* and Ministry of Work in Italy

