Pierre-LouisTILAK

Embedded System Engineer

Contact

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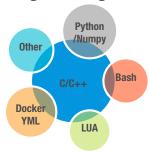
Languages

French: Mothertongue

English: Fluent TOEIC: 925 pts

Spanish: Academic Level

Programming Skills



Personal Projets OpenSource Cocktail Machine

ESP8266/Raspberry Pi

Paragliding Variometer: Atmega328p/ Kobo

E-reader

Interest

RC Models Design and build RC Gliders and Airplanes Music Guitar Sport Paragliding, Climbing, Ski, MountainBike

Summary

- Experienced Embedded System Engineer specialized in firmware development.
- Ready to manage engineering project
- Strong experience in Drone industry, perfect vision of the future of new technologies.
- Ability to design entire firmware project: Requierements, Project Organisation, Programming, Testing and Validation.
- Early employee of a fast growing startup: Autonomous, Multitask, multi-skilled, ability to adapt and be committed in any situation.
- Can-do attitude and committed to give a broad vision and a result-driven attitude to distribute the best solutions.

Experiences

2015-2019 **Delair (Industrial Drone Company) Developper in Autopilot team**

Toulouse

Embedded System Engineer

- C Programming on microcontroller (STM32): Sensor interface, Drivers, Communication protocols.
- Control Laws for Brushelss Gimbal: Kalman filtering, Brushless model control, FOC control
- Python engineering tools: GUI for experiment and log analysis (PyQT, Matplotlib, Dash & Plotly), Scripts to communicate (TCP, Serial Port), Web request, Unitary Tests and Continuious integration (Behave)
- Implementation of Developpement Environnement: Cross-compilation toolchain (arm-gcc, make), Continious Integration with GitLab Runners: Create docker images (build, complete test environement with simulator) Automatic release package generation and versionning (Gitlab Pipeline, JFrog Artifactory)
- CPP Programming on embedded linux: Drone sensor configuration, Thread and IPC (Linux Signals, SharedMemory, ZMQ, ...)

2014 **SCLE SFE 3 months internship**

Toulouse

Test plan development : JTAG Boundary Scan (XJTAG Software)

2012 **Polymont Subcontractor of Airbus Operating Method Writer**

Toulouse

Writing operating method for maintenance on Iron-bird Airbus A330, A320 and

A380

Education

2010–2014 Master of engineering

Institut National des Sciences Appliquées, Toulouse

Automatic Control and Electronics

2013 Exchange Semester 6 Months Thailand

Chulanlongkorn University, Bangkok

Skills

Tools:

- Gitlab / Jira: Ticketing, Project Managment / Agile
- Docker, Gitlab Pipelines: Continious Integration
- BDD and Unitary Tests: Behave, Gtest
- Python: Numpy / PyQt / Plotly / Sockets
- Vim, Clang, GCC Toolchain STM32 : Make/Compilation/Debugger