Pierre-LouisTILAK

Senior Embedded System Engineer

Contact

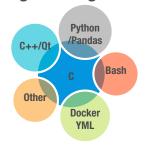
668 Horotiu road Te kowhai 3288 Waikato New Zealand

Languages

French: Mothertongue English: Fluent TOEIC: 925 pts

Spanish: Academic Level

Programming Skills



Personal Projects

Machine Learning
Online courses
Kaggle Competitions
OpenSource Cocktail Machine
ESP8266/Raspberry Pi

Paragliding Variometer Atmega328p

Interest

Kobo E-reader

RC Models Design and build RC Gliders and Airplanes Music Guitar Sport Para-gliding, Climbing, Ski. Mountain Bike

Summary

- Experienced Embedded System Engineer with a vision of the Drone industry
- Ready to take new challenges and successfully drive company's projects
- Early employee of a fast-growing startup: Autonomous, Multi-task, Multi-skilled, Motivated, capable of learning fast and adapt to any situation
- Able to design attitude filters with data fusion and navigation algorithms
- Attracted by Data science, I have a solid knowledge in data analysis
- Curious and passionate person, I want to keep learning new skills

Experiences

2019 Aeronavics (Industrial Drone Company) Software Engineer

Raglan New Zealand

- Created a fork of QGroundControl application (Qt/C++): Custom build with several UI changes and compatibility with ArduCopter
- Active developer for QGroundControl opensource project
- PullRequests on Mainline: Waypoint editor enhancement, Custom DEM with GDAL, FlightPlan fix for ArduCopter, etc.
- Implementation of an ansible-based docker infrastructure for continuous integration, artifact repository and user database (Jenkins, Nexus OSS, LDAP)
- Run investigations on support cases: Developed analysis tools for Mavlink log, custom Ardupilot firmware for test purposes

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

Toulouse France

- Worked on Autopilot attitude filter (STM32, Extended Kalman Filter, Data Fusion)
- Created a new way-point navigation algorithm (A* algorithm, space configuration)
- Python development: Data Analysis over autopilot log database (Jupyter Notebook/Pandas/Numpy/Plotly)
- Worked as a C/C++ developer to interface payload sensors on Linux
- Implementation of a Continuous Integration on my team: To build, run tests scenario over simulator (Gitlab runners, Docker, YAML, JFrog Artifactory)
- Worked as a support agent from the United States: Field experience of the product, good contact with customers / distributors

2014 **SCLE SFE 3 months internship**

Toulouse France

Test plan development: JTAG Boundary Scan (XJTAG Software)

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

Toulouse France

Write operating method for maintenance on Iron-bird Airbus A330, A320 and A380

Education

2010–2014 Master of engineering

Institut National des Sciences Appliquées, Toulouse France

Automatic Control and Electronics / Embedded Systems

2013 Exchange Semester 6 MonthsThailand

Chulanlongkorn University, Bangkok

Tools

- Python: Jupyter Notebook / Pandas/ Numpy / Plotly / Behave (BDD Tests)
- MS Excel / Gitlab / Jira: Ticketing, Project Managment, Agile
- Docker, Gitlab/Jenkins Pipelines, Nexus/JFrog Artifactory: Continious Integration