

# Hervé Dang

13601 Boulevard Cavendish App 204  
Saint-Laurent Québec H4R3N7  
+33 6 15 20 35 70  
+1 514 266-3570  
dang.herve@gmail.com  
dang.ovh



## PERSONNAL SUMMARY

Software developer in Embedded Systems and computer science specialized in Avionics. Engineering degree complemented by a Master's in Computer Engineering with a focus on embedded systems and aeronautics. Strong experience in embedded system development and integration of avionics interfaces and instruments. Multiple assignments as a DevOps engineer and system administrator, as well as projects completed as an independent contractor. Curious, determined, and endowed with a strong sense of initiative and analytical thinking, able to quickly adapt to new technical and operational environments. Holder of a French private pilot license, a Canadian commercial airplane and helicopter pilot license, as well as SATP certification for advanced and complex operations.

## SKILLS

**Language:** C, C++, Python, Scheme, JAVA, Go, PHP, .Net  
**System Administration :** BASH, Ansible, Apache, Postfix, Dovecot, Bind, OpenVPN  
**Devops:** Containerization and orchestration (Docker/Kubernetes ), Cloud computing(AWS, Azure...)  
**Tools & method:** UML, Design Pattern, IA(Prolog,Algorithme Génétiques, Réseaux de neurones...), BDD(MariaDB, Oracle..)  
**Additional skill:** Aeronautics, Embedded, Security

## WORK EXPERIENCE

### IT

- |   |           |
|---|-----------|
| <b>DRIVERS Software Developer</b> Opal-rt   | 2023-2024 |
| Contribution in the development of PC/FPGA-based real-time simulators running on Windows and Linux: |           |
| -Development of divers Drivers (MODBUS, CANBUS...)  |           |
| -Contribution of evolution of divers tool   |           |
| -Contribution of improving technical documentation  |           |
| C/C++, Real Time, Linux   |           |
| <b>Devops</b> Omnirobotic   | 2020-2022 |
| Create and manage company devops architecture:  |           |
| -CI/CD: based on drone and docker   |           |
| -Development on-demand system for our developer (Aws/Terraform)                                     |           |
| -Development of some python&bash script   |           |
| Terraform, Docker, Drone, python, Linux   |           |
| <b>Devops</b> Novaquark   | 2019-2020 |
| Contribution to create and manage cloud architecture for client/server games:                       |           |
| -Write and mange deployment platform scripts (Ansible)  |           |
| -Collaboration in setting up an on-demand environment system base on cloud (Aws/Terraform)          |           |
| -Development of some python script  |           |
| Ansible, games, C++, go, python, Linux  |           |

## Contractor

<b>Developer/Engineer/Hacker</b> Self employed	2009-2025
Completion of several tasks: <ul style="list-style-type: none"><li>-Development games: SHOKOBA and VIZIA on boardgamearena</li><li>-Involvement in some Open-source project</li><li>-Development de electronic projects using micro-controller or single-card computer</li></ul> C/C++, Linux embarqué, Android, Arduino, Raspberry pi, Web(PHP/JS/HTML)	
<b>System Administrator</b> Self employed	2009-2025
Management of a computer park with about ten computer within multi-system environment: <ul style="list-style-type: none"><li>-Setup of some server application (mail, DNS, VPN, Web...)</li><li>-Monitoring of web service for reliability</li><li>-Development of some Ansible/Python/Bash script</li><li>-Cloud testing</li></ul> System administration, Apache, Postfix, Bind, OpenVpn, Linux, Ansible	
<b>Feasibility study for using my Bike project as Business</b> Business development	2018-2021
<ul style="list-style-type: none"><li>-Business plan writing</li><li>-Funding search</li><li>-Contact with company for developing the product (Electronic design, industrial design)</li><li>-Crowd-funding campaign writing</li><li>-Firmware development</li></ul> Product development, Business plan, Entrepreneurship	

## Aeronautics

<b>Technical Associate, Vehicule Simulation</b> Consultant at CAE Montréal	2016-2017
<ul style="list-style-type: none"><li>-Aircraft simulator conception (C series/Embraer 145)</li><li>-Snag resolving for Flight Surveillance Systems (Air Traffic Control system, TCAS, EGPWS, Weather Radar System and Graphical Weather System)</li><li>-Development of different kind of simulator (Full Flight System, Flight Training Device, Integrated Procedures Trainer)</li></ul> C++, Real time, Avionics(ATC, TCAS, TAWS, WXR, GWX)	
<b>Software engineer</b> CEL Aerospace Longueuil	2015-2016
Aircraft Engine test cell development: <ul style="list-style-type: none"><li>-Add engine to the solution of the company</li><li>-Execution and writing of test plan</li><li>-Driver improvement</li></ul> VB.Net, QNX, C	
<b>Programmer C++</b> Consultant at CMC Electronics/Esterline Montréal	2014
Synthetic vision system development: <ul style="list-style-type: none"><li>-Writing of System requirement</li><li>-Writing of unit test (LLT and HLT)</li></ul> PFD/SVS, DO178B B&C level	
<b>Software developer</b> Thales Canada Avionics Division	2012-2014
Flight On-board computers development : <ul style="list-style-type: none"><li>-Design document management (writing and review)</li><li>-Conception and Development of software part from specification</li><li>-Writing and execution of unit test (LLT and HLT)</li></ul> Scade,DO178B A&D level,TCL	

## EDUCATION

<b>Master's degree in computer sciences</b> École Polytechnique de Montréal	2011-2012
Main courses:	
-Embedded system	
-Networking	
-Programmation	
<b>Engineer's diploma in computer sciences</b> EISTI	2004-2010
Main courses:	
-Software design	
-System information engineering	
-Project Management	

## LANGUAGES

**French:** mother tongue  
**Japanese:** conversational

**English:** fluent, 840 TOEIC (2009)  
**Spanish:** basic Knowledge

## HOBBIES

Horse ridding  
Model Aircraft making  
Skydiving

Aeronautics: Pilot Licence plane and helicopter  
Travelling  
Scuba diving