

# Hervé Dang

Date of birth 25 march 1987 at Nouméa

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## PERSONNAL SUMMARY

Engineer's training complete by a master's degree in computer sciences

Several experiment as a Devops/Sysadmin

Curious, determined, analytical ability, versatility and ability to adapt

## COMPUTER SKILLS

**System Administration/ Devops:** BASH, Apache, Postfix, Dovecot, Bind, OpenVPN, Iptables, Dockers, Kubectl, Cloud(AWS, Azure...)

**Programming language:** C/C++, JAVA, Python, Scheme, .Net

**System programming:** IPC, concurrent computing (Multi-threading, Multi-processing), embedded programming, drivers

**Modeling method:** UML 2.x, SysML, Design Patterns, Model driven engineering

**IA:** Prolog , Clips, Genetic Algorithm, Artificial neural network

**Web development:** PHP, NodeJs, HTML, CSS, BDD

**Electronics/Embedded system:** VHDL, FPGA, SystemC, Android, Real Time, µc, Qt

**Avionics:** A429, ARINC, CANBUS, DO178/DO254, ADS2, FLIGHTSIM

**Others:** Security, Telecoms, Aspect oriented Programming

## EDUCATION

**Master's degree in computer sciences** École Polytechnique de Montréal 2011-2012  
Main courses: Embedded system, Networking, Programmation

**Engineer's diploma in computer sciences** EISTI 2004-2010  
Main courses: Software design, System information engineering, Project Management

## WORK EXPERIENCE

**Developer/Engineer/Hacker** Self employed 2009-2025  
Completion of several tasks:  
-Development games: SHOKOBA and VIZIA on boardgamearena

- Involvement in some Open-source project
- Development of electronic projects using micro-controller or single-card computer

C/C++, Linux embarqué, Android, Arduino, Raspberry pi, Web(PHP/JS/HTML)

**System Administrator** Self employed 2009-2025  
Management of a computer park with about ten computer within multi-system environment:

- Setup of some server application (mail, DNS, VPN, Web...)
- Monitoring of web service for reliability
- Development of some Ansible/Python/Bash script
- Cloud testing

System administration, Apache, Postfix, Bind, OpenVpn, Linux, Ansible 2023-2024  
**DRIVERS Software Developer** Opal-rt  
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 2020-2022  
**Devops** Omnirobotic

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	Contribution to create and manage cloud architecture for client/server games: -Write and manage 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	2019-2020
<b>Feasibility study for using my Bike project as Business</b>	Business development -Business plan writing -Funding search -Contact with company for developing the product (Electronic design, industrial design) -Crowd-funding campaign writing -Firmware development	2018-2021
<b>Technical Associate, Vehicule Simulation</b>	Product development, Business plan, Entrepreneurship Consultant at CAE Montréal -Aircraft simulator conception (C series/Embraer 145) -Snag resolving for Flight Surveillance Systems (Air Traffic Control system, TCAS, EGPWS, Weather Radar System and Graphical Weather System) -Development of different kind of simulator (Full Flight System, Flight Training Device, Integrated Procedures Trainer) C++, Real time, Avionics(ATC, TCAS, TAWS, WXR, GWX)	2016-2017
<b>Software engineer</b>	CEL Aerospace Longueuil Aircraft Engine test cell development: -Add engine to the solution of the company -Execution and writing of test plan -Driver improvement VB.Net, QNX, C	2015-2016
<b>Programmer C++</b>	Consultant at CMC Electronics/Esterline Montréal Synthetic vision system development: -Writing of System requirement -Writing of unit test (LLT and HLT) PFD/SVS, DO178B B&C level	2014
<b>Software developer</b>	Thales Canada Avionics Division Flight On-board computers development : -Design document management (writing and review) -Conception and Development of software part from specification -Writing and execution of unit test (LLT and HLT) Scade,DO178B A&D level,TCL	2012-2014
<b>Internship</b>	-Aircalin: Development of a tool allowing personal management (2 mois) -Société Le Nickel: Module design for GLPI(2 mois) 2009 -École Polytechnique de Montréal: Study of different architecture with RESP-SIM (4 mois) -Laboratoire d'Astrophysique de Bordeaux: Creation of the software part for high speed analog-to-digital converter project (4 mois)	2008-2011

## LANGUAGES

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

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

## HOBBIES

Horse riding  
Model Aircraft making  
Skydiving

Aeronautics: Pilot Licence plane and helicopter  
Travelling  
Scuba diving