

Hervé Dang

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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, Kurnbante, 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, AFDX, CANBUS, DO178/DO254, ADS2, FLIGHTSIM

Others: Security, Telecoms, Aspect oriented Programing

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, Rasberry 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

DRIVERS Software Developer 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

Devops 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	
Devops Novaquark	2019-2020
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	
Feasibility study for using my Bike project as Business	2018-2021
Business development	
- Business plan writing	
- Funding search	
- Contact with company for developing the product (Electronic design, industrial design)	
- Crowd-funding campaign writing	
- Firmware development	
Product development, Business plan, Entrepreneurship	
Technical Associate, Vehicule Simulation	2016-2017
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)	
Software engineer	2015-2016
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	
Programmer C++	2014
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	
Software developer	2012-2014
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	
Internship	2008-2011
- 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)	

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