

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, Kubernate, 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, μ c, 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 de 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 Omnibotic	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 Business development	2018-2021
-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 Consultant at CAE Montréal	2016-2017
-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 CEL Aerospace Longueuil	2015-2016
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++ Consultant at CMC Electronics/Esterline Montréal	2014
Synthetic vision system development:	
-Writing of System requirement	
-Writing of unit test (LLT and HLT)	
PFD/SVS, DO178B B&C level	
Software developer Thales Canada Avionics Division	2012-2014
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