

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, Kubernetes, 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 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 de 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	
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 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	
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 riding

Model Aircraft making

Skydiving

Aeronautics: Pilot Licence plane and helicopter

Travelling

Scuba diving