

Hervé Dang

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PERSONNAL SUMMARY

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

Engineer's diploma in computer sciences EISTI

2004-2010

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

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 script
- Cloud testing

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

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)

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)

Feasibility study for using my Bike project as Business	Business development	2018-2021
<ul style="list-style-type: none"> -Business plan writing -Funding search -Contact with company for developing the product (Electronic design, industrial design) -Crowd-funding campaign writing -Firmware development 		
Technical Associate, Vehicule Simulation	Consultant at CAE Montréal	2016-2017
<ul style="list-style-type: none"> -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) 		
Software engineer	CEL Aerospace Longueuil	2015-2016
Aircraft Engine test cell development: <ul style="list-style-type: none"> -Add engine to the solution of the company -Execution and writing of test plan -Driver improvement 		
Programmer C++	Consultant at CMC Electronics/Esterline Montréal	2014
Synthetic vision system development: <ul style="list-style-type: none"> -Writing of System requirement -Writing of unit test (LLT and HLT) 		
Software developer	Thales Canada Avionics Division	2012-2014
Flight On-board computers development : <ul style="list-style-type: none"> -Design document management (writing and review) -Conception and Development of software part from specification -Writing and execution of unit test (LLT and HLT) 		
Internship		2008-2011
<ul style="list-style-type: none"> -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