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, 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, 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
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

- 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

- 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:
- 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:
- Writing of System requirement
- Writing of unit test (LLT and HLT)

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)

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

English: fluent, 840 TOEIC (2009)

Japanese : conversional

Spanish : basic Knowledge

HOBBIES

Horse ridding

Aeronautics: Pilot Licence plane and helicopter

Model Aircraft making

Travelling

Skydiving

Scuba diving