

Hervé Dang

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PERSONNAL SUMMARY

Software developer in Embedded Systems and computer science specialized in Avionics. Engineering degree complemented by a Master's in Computer Engineering with a focus on embedded systems and aeronautics. Strong experience in embedded system development and integration of avionics interfaces and instruments. Multiple assignments as a DevOps engineer and system administrator, as well as projects completed as an independent contractor. Curious, determined, and endowed with a strong sense of initiative and analytical thinking, able to quickly adapt to new technical and operational environments. Holder of a French private pilot license, a Canadian commercial airplane and helicopter pilot license, as well as SATP certification for advanced and complex operations.

SKILLS

Language: C, C++, Python, Scheme, JAVA, Go, PHP, .Net
System Administration : BASH, Ansible, Apache, Postfix, Dovecot, Bind, OpenVPN
Devops: Containerization and orchestration (Docker/Kubernetes), Cloud computing(AWS, Azure...)
Tools & method: UML, Design Pattern, IA(Prolog,Algorithme Génétiques, Réseaux de neurones...), BDD(MariaDB, Oracle..)
Additional skill: Aeronautics, Embedded, Security

WORK EXPERIENCE

IT

- 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

Contractor

Developer/Engineer/Hacker Self employed	2009-2025
Completion of several tasks: <ul style="list-style-type: none">-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: <ul style="list-style-type: none">-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	
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 Product development, Business plan, Entrepreneurship	

Aeronautics

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) C++, Real time, Avionics(ATC, TCAS, TAWS, WXR, GWX)	
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 VB.Net, QNX, C	
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) PFD/SVS, DO178B B&C level	
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) Scade,DO178B A&D level,TCL	

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

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