Hervé Dang

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PERSONNAL SUMMARY

Software developper 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/Kubernates), Cloud computing(AWS, Azure...)
Tools & method: UML, Design Pattern, IA(Prolog,Algorithme Génétiques, Reseaux 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:
> -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

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

Aeronautics

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   2012-2014
  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

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   **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