Resume Martin Dubois, ing.

Martin Dubois, P. Eng.

Personal Information

Address: 9-9000, rue de l'Attisée

Lévis (Québec) G6X 1H8

Telephone: (418) 832-1208 Cell phone: (418) 564-3275

Email: mdubois@kms-quebec.com

University Training

Laval University

January 1995 – December 1998

Certificate in Education for postsecondary teaching (15 credits completed)

Laval University

Completed December 1993

Bachelor's Degree in Computer Engineering

General Information

- Member of the OIQ (Quebec corporation of professional engineers)
- Sports: hiking, cycling, snowshoeing, cross-country skiing
- Hobbies: travel, wood working, reading, cinema, writing, computer science, motorcycling and music.

Conference

Utilisation de GPU pour l'inspection de trafic réseau, 2018, novembre 3 at Hackfest (https://hackfest.ca/)

Work Experience

KMS Since March 2002

http://www.kms-quebec.com

Computer Engineering Consultant

Completed various assignments involving the development of device drivers and embedded software.

Android GIT Language C/C++ OpenCL PCI/PCIe USB WDF et WDM

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Cégep de La Pocatière

Since January 2015

http://www.cegeplapocatiere.qc.ca

Computer Science Teacher

• Taught courses on computer tool basics and programming to students enrolled in the regular and technical program.

Cégep Beauce-Appalaches

Since August 2010

http://www.cegepba.qc.ca

Computer Science Teacher

• Taught courses on computer tool basics and programming to students enrolled in the regular and technical program.

LeddarTech

January 2008 - July 2010

http://www.leddartech.com

Senior Software Engineer

AVR32

CAN

USB

- Designed, implemented and tested control software for LEDDAR devices used in various applications.
- Actively participated in the development of optic components for systems.
- Participated in the implementation and management of the LAN.
- Co-inventor of the patents:
 - US 20120307065 et EP 2517189 ACTIVE 3D MONITORING SYSTEM FOR TRAFFIC DETECTION
 - US 20120218107 ENTITY DETECTION SYSTEM AND METHOD FOR MONITORING AN AREA

Pleora Technologies

March 2003 - December 2007

http://www.pleora.com

Senior Software Engineer

- Designed, implemented, optimized and tested Windows and Linux device drivers used in high bit-rate transmission of image and video traffic over Ethernet links.
- Designed and implemented various software applications mainly used for controlling electronic devices such as industrial cameras or video transmission equipment.
- Designed and implemented very low level on-board software.
- Co-inventor of the patent :
 - US 7694312 Methods and apparatus for enabling bus connectivity over a data network

Ethernet
GigE Vision
Linux
PCI and PCIe
TCP-IP
WDM et WDF

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Resume Martin Dubois, ing.

Laval University

September 2002 – May 2005

Department of Computer Science and Software Engineering http://www.ift.ulval.ca

Lecturer

• Prepared and taught a course on system programming (*Programmation système* – IFT-17584).

Linux QNX

• Created, prepared and taught a course on real-time lab, automation and robotics (*Laboratoire temps réel, automatisation et robotique* – IFT-21460).

Windows CE

• Received the Star Teacher 2003-2004 award (granted by the Faculty of Science and Engineering).

DiCOS Technologies

January 2001 - February 2002

Software Manager

• Implemented and improved software development procedures and standards.

CCS DSP/BIOS TMS320C55 WDM

- Designed and implemented on-board software for electronic instruments and modules used to control laser and optical filter frequency.
- Designed and implemented software used to control, characterize calibrate and test electronic modules.
- Developed an embedded Ethernet communication software used for instrument control.
- Participated in the implementation and management of the LAN.

Cybectec

September 2000 - January 2001

http://www.cybectec.com

Software Developer

 Developed an embedded software for remote control of electrical substation and power plants.

COM / DCOM Windows CE

- Designed and implemented components for remote monitoring of the system.
- Developed test and simulation software applications.
- Participated in the implementation of software development procedures and standards.

Labcal Technologies

January 2000 – September 2000

http://www.labcal.com

Software Developer

• Developed peripheral drivers for smart card systems.

WDM

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Martin Dubois, ing. Resume

Collège de la région de l'Amiante

August 1999 - December 1999

http://www.cegepth.qc.ca

Computer Science Teacher

Taught courses on operating systems, telecommunications and networks, and computer tool basics (Systèmes d'exploitation, Télécommunications et réseaux, Initiation aux outils *informatiques*) to students enrolled in the regular program.

Cobol **VMS**

HexaVision Technologies

October 1996 – May 1999

Junior Software Engineer

• Designed and implemented device drivers for image acquisition, image processing and high speed communication PCI boards.

PCI ONX

• Designed and implemented testing and characterization programs for boards and electronic components developed.

Le groupe Berclain – BAAN

March 1996 – September 1996

Junior Software Engineer

• Maintained the MOOPI industrial production planning software.

UNIX ERP / MRP

InnovMetric Logiciels

July 1994 – February 1996

http://www.innovmetric.com

Junior R&D Engineer

• Designed, implemented and maintained 3D geometrical modelling applications for science and film animation.

Irix OpenGL

- Developed several 3D file format translators.
- Implemented and managed the LAN.

Laval University

April 1994 – June 1994

Octopus Project

Senior Research Fellow

• Participated in the implementation of an object-oriented Prolog compiler, used mainly for the lexical analyser, syntactic analyser and system call generation layer.

PowerPC Prolog

Laval University

May 1993 - August 1993

Vision and digital systems laboratory

Research Assistant

http://vision.gel.ulaval.ca

Designed and implemented an interface between the electronic control components of a PUMA 500 industrial robot and the VME bus.

Irix SunOS TMS320C40

• Designed and implemented a distributed control software.

VME

References

Available on request.

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