

Marko Marjanovic

TECHNICAL SKILLS

Programming	Hardware	Applications/Operating Systems
<ul style="list-style-type: none">• C/C++, C#, VB, Java• x86 Assembly/MMX• PHP, HTML, SQL, CSS	<ul style="list-style-type: none">• Integrated Circuits• Memory (RAM & ROM)• HDL , FPGA	<ul style="list-style-type: none">• Microsoft Visual C++ 6.0/.NET/2005• MS Windows 2000/XP, x64• FreeBSD, Unix, Linux, QNX

EDUCATION

University of British Columbia
Computer Engineering

2001 - 2007
BASC Degree

TECHNICAL PROJECTS

Database Reporting Application

September 2007 - October 2007

- Developed a customized user interface in Excel for data entry
- Relied on DAO database support from Excel to create a centralized database for multiple users
- Trained operating crew and managers on how to use the application

Operating System Kernel

September 2006 - December 2006

- Included memory management, process management, system call interfaces, interrupt handling, signaling, semaphore synchronization, and device management
- Developed a keyboard device driver to test asynchronous interrupt handling routines
- Interacted with hardware by creating Interrupt Service Routines and using ports for devices

Distributed Collaborative Application

September 2006 - December 2006

- Used for collaborative file editing and discussion across multiple remote (distributed) machines
- Developed a TCP client/server architecture to communicate between machines
- Files and discussion transcripts were saved in a persistent store (SQL database)

Automated FedEx Shipping Application

June 2006 - July 2006

- Automated the shipping procedure by eliminating manual shipment and data entry via software
- Retrieved data from an SQL sales order database and displayed the data in a GUI
- Transferred the compiled data to the FedEx server via FedEx shipping APIs
- Stored shipment data in an SQL database and verified shipment transactions

Firewire Camera Message Logging

March 2006 - April 2006

- Recorded and displayed information from firewire cameras which provided technical information such as register reads/writes, device arrivals/removals and bus resets/errors.
- Developed a GUI which displayed the connected cameras, messaging filters, amount of memory to allocate, a list of all the messages, and the details of the selected message

TECHNICAL WORK EXPERIENCE

Frostbyte Software Design

September 2007 – present

Owner / Developer

- Fully customized software development contracting business
- Developing reporting software, database applications, user interfaces, and websites

Louisiana Pacific

May 2007 – September 2007

Computer Engineering Coop

- Troubleshooting computers, servers and the network of the entire plant operations
- Developing software applications and mapping out the LAN network with MS Visio
- Holding meetings to discuss various options for software and hardware

Point Grey Research

January 2006 - August 2006

Software Developer Coop

- Developing image acquisition software which would stream images from firewire cameras in Visual Basic, C#, and C/C++
- Improving stereo vision software using OpenGL
- Implementing camera calibration and test software according to specifications
- Optimizing image display software using Intel x86 MMX (Multi-Media eXtension) assembly

International Submarine Engineering

January 2005 - April 2005

Control Systems Software Developer Coop

- Designing and developing autonomous underwater vehicle (AUV) control system components according to requirements
- Programming software interface for AUV components using C/C++
- Verifying and testing existing code for production using custom in-house software
- Strictly complying with company coding requirements and customer agreement specifications

Elk Valley Coal Corporation (Formerly Fording Inc)

September 2003 - May 2004

Personal Computer Analyst Coop

- First line of support through telephone and email for hundreds of Fording users around the world including the USA, Mexico, and Belgium
- Communicating effectively and professionally to establish the problem at hand in order to address it appropriately
- Performing software and hardware troubleshooting, diagnosing the impact and responding with a resolution whenever possible or determining the appropriate steps required for resolution

VOLUNTEER EXPERIENCE

UBC Farm - *Farm Volunteer*

June - September 2006

- Aided in weeding, harvesting, and planting on the UBC organic, sustainable farm.

AWARDS AND BURSARIES

Golden Key Award (Top 15% of students)

2006

University of BC Bursary (Top marks in program)

2006

ACTIVITIES AND INTERESTS

- Soccer, Snowboarding, Guitar, Trumpet, Hiking, Fishing, Photography, Website Design

References will be provided upon request