

**CONTACT
INFORMATION**

630 Rue William, Apt. 808
Montreal, Quebec H3C 4C9
Mobile: +1-438-863-1310
E-mail: bkybartas@gmail.com

**HIGHLIGHTS OF
QUALIFICATIONS**

- Four months teaching experience including running office hours, invigilating midterms, and grading group projects
- Four months professional experience at the *Juravinski Cancer Centre* developing a pipeline for deformable image registration
- One year game development experience for the undergraduate capstone project, resulting in a 3D platforming game

**TEACHING AND
PROFESSIONAL
EXPERIENCE****McGill University, Montreal, QC****Teaching Assistant
COMP 303 - Software Development****Sept. 2011 - Dec. 2011**

- Provided weekly office hours, and gave feedback and assistance to students regarding the course project
- Utilized e-mail to be able to reply to student questions and concerns outside office hours
- Acted as an invigilator for the course midterm, monitoring students and being available to answer questions
- Created a marking rubric for the first milestone of the course project and used this rubric to grade each group's project

Juravinski Cancer Centre, Hamilton, ON**Engineering Co-op IT Student****May 2010 - August 2010**

- Developed a pipeline used to apply non-rigid image registration on CT images of Head and Neck cancer patients
- Designed and implemented both a graphical and text-only user interface to interact with this pipeline
- Optimized parameters for image registrations by creating and performing multiple tests, and then analyzing their result
- Improved the original required functionality of the pipeline by adding in the option to perform registration on prostate cancer patient images

McMaster University, Hamilton, ON**Research Assistant****May 2009 - Aug. 2009**

- Assisted a professor in developing additional functionality for an open-source Java program which is used to test Desktop Grid Scheduling methods
- Gained experience working independently with the source code of a program which was implemented by another individual
- Executed various tests using the program, the results of which were used to update a research paper published through the university

VOLUNTEER
EXPERIENCE

Canadian Warplane Heritage Museum, Hamilton, ON

Buffalo Restoration Crew Member

January 2005 - August 2009

- Worked consistently with a team in order to repair a DHC-5 Buffalo Aircraft and repaint it with the markings of the DHC-5 Buffalo shot down over Syria in 1974
- Exercised strength in design skills when reconstructing UN logo replicas and markings on the wings, tail and body of aircraft and when performing the reconstruction of the aircraft body

EDUCATIONAL
SUMMARY

McGill University, Montreal, QC

Master of Computer Science

Sept. 2011 - Present

Supervisor: Clark Verbrugge

Courses:

- Modelling and Simulation
- Advanced Topics Systems 2 (Mobile Robotics)
- Intro. to Computer Graphics
- Modern Computer Games
- Distributed Systems
- Machine Learning

McMaster University, Hamilton, ON

Bachelor of Software Engineering

Sept. 2007 - April 2011

Honour's List, Co-op Option

Specializations:

Game Design

Higher level courses:

- Performance Analysis
- Human Computer Interfaces
- Engineering Ethics
- Real-Time Systems
- Databases
- Engineering Economy
- Networks and Security
- Perception/Cognition
- Digital Culture

Project Leader - Java Chat Client

- Acted as the group leader for a large software project in the third year involving the complete development, design and implementation of a chat system following the software development process

Group Member - OpenGL Game

- Participated in a large group project in third year which involved the creation of a 3D maze game in C++ using the OpenGL library

Group Member - Super Cephalopod 64

Capstone Project

- Created a 3D platforming game amongst a group which was coded using C++ and used the C4 engine
- Worked also with Blender in order to create various models to be used within the game
- Presented the final game to employees of IBM and Silicon Knights as part of the IBM Capstone Challenge
- Winner of the IBM Capstone Challenge in 2011

COMPUTER SKILLS

Languages and Software Python, Java, JavaScript, C++, C, C#, Octave, Matlab, HTML, L^AT_EX, JOGL, OpenGL, svn, LibreOffice, GIMP, Adobe Photoshop, Blender

Software IDEs Geany, Visual Studio, Eclipse

Operating Systems Windows 7, Ubuntu, Windows Vista, Mac OS X