

MATTHEW PAGNAN

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SUMMARY OF SKILLS

- **Computer Science degree**
- Computer skills including **C#, C++, CUDA, SQL, MS Office, Latex, Python, Java, HTML, CSS, JavaScript, Linux, Microsoft Windows**
- **Experience Programming Robots** - Lead Programmer for a robotics team
- **G class drivers license**

EDUCATION

Bachelor of Science, Honors Computer Science Co-op

expected completion May 2016

· McMaster University, Hamilton, ON

Kincardine District Secondary School, Kincardine

graduated June 2012

· Ontario Scholar

· OSSTF District 7 Award - for recognition of helping with the sound system for school assemblies.

Relevant Courses

- | | |
|----------------------------------|-----------------------------|
| • Data Structures and Algorithms | • Computer Graphics |
| • Computer Architecture | • Software Requirements |
| • Software Design Fundamentals | • Distributed Computing |
| • Principals of Programming | • Web Computing |
| • Databases | • Human Computer Interfaces |
| • Functional Programming | |

PROJECTS

C#

- Music Player and Score Board - Side project for outreach event with Robotics
- Checkers game - Group project - Focused on MVC design
- Turn based Tactics game - High school project
- Work Request System - UI that made queries to a database - Highschool Project

C++

- Basketball shooting robot - Robotics team
- Inner tube hanging robot - Robotics team
- Particle cannon - Graphics Project - OpenGL
- Terrain Generator - Graphics Project - OpenGL
- 3D 3rd person plant growing simulator - Graphics Project - Group Project - OpenGL
- Mandel Box image renderer - Accelerated with openACC with self guided camera
- Running particle simulations with GPU – CUDA – research project

Python

- Maze Generator
- DNA Sequence match updater
- Various file parsing and filtering applications

EXPERIENCE

Software Assistant

Gupta Labs - McMaster University

September 2015 - May 2016

Hamilton, ON

- Worked independently creating applications for Bio-Med research professor and students
- Created applications that would filter through 100,000+ compounds and keep only compounds of interest
- Created a simple product key protection module for applications.
- Created documentation for all applications made

Grocery and Receiving

Sobeys Kincardine

June 2014 - August 2015

Kincardine, ON

- Stocked product, Assisted customers in finding items.
- Worked 40 hour weeks during the summer. 8 hour shifts.
- Received orders.
- Entered invoices into receiving logs.
- Setup weekly and monthly end displays

Kitchen Duty

Erie Bell

June 2013 - September 2013

Kincardine, ON

- Worked in a fast paced environment
- Cleaned dishes, Prepared food, Cleaned the Kitchen at the end of the night

Research and Development (co-op)

Bruce Power

January 2012 - June 2012

Tiverton, ON

- Editing a virtual simulator of one of the reactors
- Taught myself SQL so I could make queries to the database. - able to learn new technologies
- Created a C# application that used SQL commands to connect to an ORACLE database and generate queries.

Lead Programmer

High school Robotics team (Club)

January 2007 - April 2012

Kincardine, ON

- Worked with PLCs and other robotic parts (Sensors and Motor Controllers)
- Taught myself how to program a robot - able to independently learn new skills in order to accomplish a project
- Set up routers for communication between the robot and driver station.
- Programmed the robot within the 6 week build season.
- Worked as a key member a part of a team to get the robot working - Able to work independently and with a team.
- During last year on the team became a mentor to junior members of the team and taught them how to program robots.
- Organized a summer Science and Technology week for public school kids during the summer

EXTRACURRICULAR ACTIVITIES

Robot Inspector, Programming Mentor - FIRST Robotics

Archery, Video games, Camping, Computers