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 Architecture
- Software Design Fundamentals
- Principals of Programming
- Databases
- Functional Programming
- Computer Graphics
- Software Requirements
- Distributed Computing
- Web Computing
- Human Computer Interfaces

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 September 2015 - May 2016
Gupta Labs - McMaster University *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 June 2014 - August 2015
Sobeys Kincardine *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 June 2013 - September 2013
Erie Bell *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) January 2012 - June 2012
Bruce Power *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 January 2007 - April 2012
High school Robotics team (Club) *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