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# Marek Niewiadomski

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## QUALIFICATION SUMMARY

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**Languages:** Proficient: -Java -C -Visual Basic -Python  
Familiar: -HTML -CSS -C# -VHDL

**Software:** Proficient: Microsoft Office applications, SolidWorks, AutoCAD, Xilinx

**Additional:** - Ability to learn and self teach new concepts, technologies and theorems quickly.  
- Motivated and organized team leader who focuses on innovation and solution driven results with an independent work ethic.

## EDUCATION

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**Engineering Systems and Computing Co-op, University of Guelph** September 2015 -Present

- Entrance scholarship for 85%+ high school average.
- Key Courses: Intermediate Programming (C)  
Object Oriented Programming (Java)  
Digital Systems (VHDL)

## ACADEMIC PROJECTS

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**Dungeon Crawler Game** Winter 2017

- Created rogue like game.
- Learned the importance of modular programming.
- Used tools like GDB, Valgrind, and Git.

**Kinder Design Toy** Winter 2017

- Designed a running mechanical toy capable of being completely dissembled.
- Modelled the toy in SolidWorks to enable testing which decreased development costs.

**Electronic Store** Fall 2016

- Created a program to represent an electronic store in Java using an object-oriented programming approach.
- Implemented a GUI using layout managers.

## WORK EXPERIENCE

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**TPT Die Cast Machine Operator, Fiat Chrysler Automobiles – Toronto, ON** June 2015— January 2017

- Operated machines and guaranteed that they worked properly.
- Trimmed and filed parts to meet specifications.
- Independently identified and disposed of parts not meeting quality standards.

**Physics Tutor, Bishop Macdonell Catholic High School – Guelph, ON** September 2014—June 2015

- Worked with students in a one on one environment identifying course challenges and gaps in their knowledge.
- Used clear and descriptive language to help visualize problems.

**Mechanic's Assistant, MSJ Automotive – Windsor, ON** July —August 2012

- Assisted in diagnosing, repairing and servicing automobiles to customer's satisfaction.
- Ensured and analyzed quality of work done.

## ENGINEERING EXPERIENCE

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**Guelph Mental Hacks**, *University of Guelph – Guelph, ON*

March 2017

- Developed a website, using HTML and CSS, steered towards helping those with mental illnesses.
- Presented design to a board of judges explaining our initiative.

**Gryphon Racing Team**, *University of Guelph – Guelph, ON*

September 2016 —Present

- Worked with a team of engineering students to document and update electrical work done on the gryphon race car using AutoCAD Electrical and SolidWorks Electrical.
- Involved in integrating the tire temperature sensors to existing electrical systems.
- Collaborated with business students in marketing our project to potential sponsors.

**Reverse Engineering Project**, *University of Guelph – Guelph, ON*

September 2016

- Used existing knowledge of SolidWorks to replicate a sewing machine.
- Standardized measuring and pairing methodologies with my team to ensure a smooth assembly.