William Baxter

Mechanical Engineering
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SUMMARY OF QUALIFICATONS

- Proficient in 3D and 2D CAD using Solidworks and AutoCAD.
- Experienced in the production of engineering drawings with GD&T principles.
- Programming ability in C/C++, Java, PHP, SQL, HTML, JavaScript and KSH/Bash.
- Experience with rapid prototyping using laser-cutting and 3D-Printing technologies.
- Extensive knowledge of the Microsoft Office Suite and VBA.

WORK EXPERIENCE

Stackpole International
January 2018 - April 2018

Mechanical Engineering

- Performed equipment validation and product capability analysis.
- Optimized manufacturing lines by performing time studies to determine problem areas.
- Performed test PPAP runs of parts to ensure dimensional quality, developing dimensional changes where necessary to improve part quality.

E-Zn Inc
May 2017 - August 2017

Lab Assistant

- Created and implemented functional modifications to primary Zinc Reactor Cell features.
- Developed 3D CAD models of product components using Solidworks.
- Constructed prototype components using a variety of processes including machining, gluing and soldering.
- Improved upon, and developed new manufacturing processes.
- Produced engineering drawings of product components.

Magna International
September 2016 - December 2016

Manufacturing Engineering

- Developed line changes to improve manufacturing efficiency.
- Produced individualized automation solutions to facilitate office tasks through the use of VBA in Excel.
- Performed time studies to identify problem areas and optimize manufacturing lines.

CGI Group
January 2016 - April 2016

Technical Analyst

- Developed bug fixes for legacy software using SQL and C++ in a Solaris (UNIX) development environment on an Agile team.
- Worked with management to produce large scale client-facing solutions and presentations.
- Developed an internal stand-alone website from the ground up to allow for efficient database access for business analysts.

PROJECTS

Mechanical Aperture Garbage Can

- Designed a garbage can with a mechanical aperture as a lid to be operated using an Arduino.

Rubik's Cube Solving Robot

- Designed and constructed a Rubik's Cube solving robot.
- Developed an Android app that solves Rubik's Cubes and communicates the solution to a robot.

EDUCATION

University of Waterloo
September 2015 - Present

- Candidate for Bachelor of Applied Science in Mechanical Engineering

Saint John High School
September 2011 - June 2015

- New Brunswick Secondary School Diploma, High Honours
- Peter Aske Memorial for Most Promising Engineering Student
- NB Provincial High School Programming Competition, 3rd Place