

RESUME WORLD INC.

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PROFILE

A recent graduate with over five years of intermittent employment experience (while at university) together with a **Bachelor of Engineering Degree in Mechanical Engineering** and an impending certificate in **Computer Programming for Engineers**. Acquired experience in design manufacturing, controls, instrumentation, thermodynamics, fluid/material mechanics, manufacturing methodologies and processes, robotics and automated mechanical systems. Trained to work productively in a host of manufacturing fields, including automotive, aerospace, pharmaceutical, electronics, research and development, technical sales and field support. Ability to use modern technologies and tools to diagnose and solve engineering problems, saving substantially on time, costs and other resources.

A team player with strong communication and interpersonal skills, including fluency in French. Highly adaptable to new environments, challenges and increasing levels of responsibilities.

SKILLS, KNOWLEDGE AND EXPERIENCE ACQUIRED THROUGH EDUCATION

Advanced Manufacturing – knowledge of risk assessment and advanced engineering, including material handling, transport systems and storage systems, lean production and agile manufacturing, flexible and re-configurable manufacturing systems, solid free-form fabrication and rapid prototyping, semiconductor and electronics manufacturing, methods in biotechnology manufacturing and advanced methods in quality assurance and inspection

Design for Manufacturing – solid understanding of the methods used for successful product design in manufacturing processes. Review of engineering life cycles, manufacturing systems, assembly and disassembly processes in relation to rapid product manufacturing

Controls/Instrumentation - Constructed and tested circuits on pneumatic and electronic-pneumatic and created relevant documentation using ANSI circuit symbology and PLC software. Industrial automation control logic systems using fluid power and microprocessor based circuits, standard sensor technology and peripheral equipment

Thermodynamics - Tested engines and evaluated Gas power systems; Air Standard Otto, Diesel, Dual and Brayton cycles. Evaluated thermo-dynamic systems, and fluid properties with considerations such as energy, work, and heat. Properties of a pure, simple compressible substance and substances that appear in different phases.

Fluid Mechanics - Properties of fluids. Forces on submerged planes. Flow characteristics: laminar and turbulent flow, steady and unsteady flow, streamlines. Flow analysis: control volume/control system and differential approaches for mass, momentum and energy conservation. Dimensional analysis, similitude and model testing.

Mechanics of Materials - Rigid body equilibrium, two and three-force members; trusses, frames and machines. Method of joints, sections, members. Dry friction and stress analysis covering stress and strain, Hooke Law. Axial loading and statically indeterminate problems.

ENGINEERING & BUSINESS EXPERIENCE

AVALON ENGINEERING SYSTEMS, Toronto, Ontario

2008, 2009

Junior Engineer

(summers)

- Modeled complex parts and assemblies via the SolidWorks software to produce results quickly and easily; created models for small injection moulded components for automotive applications
- Provided a systematic, cost-effective means of evaluating prototypes based on data generated and priorities developed in-house for process improvements in product design and manufacturing
- Designed single pneumatic circuits for machine applications and created the designed and details of machine component for pneumatic applications

Continues...

SCOTIABANK, Toronto, Ontario

Sep 2006 – Sep 2008

Mutual Funds Adjustment Officer

(part-time)

- Promoted and the sale and service of bank products and service using product knowledge, excellent salesmanship and a high degree of professionalism
- Generated a significant improvement in efficiency by developing and implementing the use of several time saving procedures using information technology

SCOTIABANK, Stratford, Ontario

Oct 2004 – Sep 2006

Mortgage Verification Officer

(part-time)

- Analyzed and authorized mortgage adjustments utilizing mathematical and risk assessment skills together with knowledge of applicable policies and regulations
- Contributed to a higher performance level by new employees by co-developing and implementing training procedures
- Assisted in the transfer of the Mortgage department from Toronto to Stratford
- Investigated, evaluated and resolved escalated customer concerns/complaints in a timely and professional manner

EDUCATION

RYERSON UNIVERSITY, Toronto, Ontario

2004 - 2008

Bachelor of Engineering Degree in Mechanical Engineering*Graduated Top of Class (with Distinction) – GPA 3.98*

- The program provided practical applications to deal with real engineering problems and involved significant computer and lab experience, including:
- **Manufacturing lab** - equipped with machine tools; metrology, fabrication, materials testing and process controls labs
- **Thermo/fluid lab** - equipped with fully instrumented gas and diesel internal engines and gas turbine engines
- **Computer labs** - equipped with Computer-Aided Design (CAD) and other engineering software, plus a variety of programming languages

RYERSON UNIVERSITY, Toronto, Ontario

2008 - Present

Certificate in Computer Programming (Engineering)

This program covers methods to solve engineering problems by translating engineering problems into mathematical form and solve these problems with the aid of computer technology

INFORMATION TECHNOLOGY SKILLS

- AutoCAD, Matlab, SolidWorks, ADAMS, AML, InteractiveC, Visual Basic, Visual C++, ANSYS, Adobe Photoshop, MS Office, WordPerfect, Lotus 1-2-3, WordPro, Lotus Notes, and Scotiabank Software, as well as Internet research and communication tools

REFERENCES ARE AVAILABLE UPON REQUEST
