

SHAWN EMRAN

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HIGHLIGHTS OF QUALIFICATION

- Experienced in engineering design, project management & manufacturing roles through Engineers Without Borders, Solar Car, Supermileage, Aero Design & Fenwick Automotive
- Skilled with MS Word, MS Excel, MS PowerPoint & continuously enhancing skills with MS Project, MS Visio, SolidWorks, AutoCAD & CATIA
- Well versed with programming languages such as C++, PHP, CSS & HTML
- Attained strong knowledge of lean manufacturing, methods engineering & project management principles through work experience & course work
- Possess exceptional interpersonal, communication, organizational, time management & leadership skills through extensive involvement in engineering projects

FORMAL EDUCATION

Certificate in Project Management **2007 – Present**

Ryerson University, Toronto, Ontario

Bachelor of Aerospace Engineering **2006 – Present**

Ryerson University, Toronto, Ontario

Bachelor of Science in Mechanical Engineering **2005 – 2006**

Schulich School of Engineering, University of Calgary, Calgary, Alberta

RELATED EXPERIENCE

Engineering Co-op - Production Manufacturing Team **May – July 2007**

Fenwick Automotive Products, Toronto, Ontario

- Performed methods engineering improvements through production data analysis, material flow analysis & process flow time studies to achieve production efficiency
- Implemented Six Sigma practices on the production floor such as material identification, flow tracking & dating of production stages to prepare for the annual quality inspection
- Contributed positively in re-engineering the fundamental processes within the company & in analyzing the root causes of inefficiency to maximize production capacity
- Executed normal distribution on production data through the computation of mean, median, variance, standard deviation & confidence intervals to evaluate work performance
- Developed professional experience while contributing to the company's success by the appropriate application of lean manufacturing concepts such as Kaizen, Kanbans & Just-in-Time (JIT) inventory control at the production plant

PROJECT EXPERIENCE

Systems Engineering Lead **September 2006 – Present**

Ryerson University Aero Design Team, Toronto, Ontario

- Contributed to the Systems Engineering report by formulating a Work Breakdown Structure (WBS) to organize the project into manageable work packages
- Applied the fundamentals of aircraft flight aerodynamics to design a model aircraft, which finished 4th among Canadian universities at the SAE Aero Design East competition
- Created a blueprint of the Horizontal & Vertical Stabilizers of the model aircraft using AutoCAD for inclusion in the design report submitted to the competition

Project Management Specialist**January – May 2007****Ryerson University Supermileage Team**, Toronto, Ontario

- Developed Work Breakdown Structure & Gantt Chart using MS Word & MS Excel for the design report, which received the highest score at the SAE Supermileage competition
- Collaborated with sponsors & distributors to secure sponsorship & parts on time
- Maintained the project website to inform sponsors & partners about team updates
- Contributed to the construction of the male & female molds using composite materials

Engineering Student - Aerodynamics Team**January – August 2006****University of Calgary Solar Car Team**, Calgary, Alberta

- Contributed to the selection of an appropriate airfoil for the solar car
- Gained understanding of the aerodynamics of the solar car & its implications on other systems of the car such as suspension, steering & regenerative brakes
- Developed an appropriate method to formulate the Center of Mass, Center of Gravity & Centroid of the solar car using MS Excel

Engineering Student - Mechanical Design**September 2005 – April 2006****University of Calgary Engineers Without Borders**, Calgary, Alberta

- Designed a Palm Kernel Separator to generate sustainable businesses in rural Ghana
- Re-engineered a Portable Treadle Pump resulting in increased efficiency & cost reduction
- Drafted a design for the frame & trough of a Cassava Crasher used in developing countries to be manufactured & subsequently installed in Ghana
- Created numerous blueprints of mechanical parts for production by machinists
- Performed detailed documentation of engineering projects from concept to final design

AWARDS & SCHOLARSHIPS

- Academic Merit Admission Award, University of Calgary
- Scholar's Advantage Award, University of Calgary
- Alexander Rutherford Scholarship, Alberta Education
- Honors Medallion, Lester B. Pearson High School
- Award of Merit, Aventis Biotech Challenge Calgary
- Bronze Medalist, Canadian Cricket Association Canada Cup

CONFERENCES ATTENDED

- Success Secrets of the Motivational Superstars
- The Secrets "How-to" for Young Entrepreneurs
- Professional Engineers of Ontario Student Conference

AFFILIATIONS & MEMBERSHIPS

- Student member of Professional Engineers Ontario
- Student member of Ontario Society of Professional Engineers

PERSONAL INTERESTS

- Workout at least once a week at the fitness center
- Avid observer of new developments in the Aerospace Industry