**MIRWAIS SHARIFI**

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**Qualifications Summary**

A mechanical engineer seeking employment in engineering or related positions.

* Ability to perform tasks with minimal supervision and in a punctual manner
* Self-motivated to work in a fast-paced environment and producing high standard work solutions
* Excellent communication, interpersonal and analytical skills
* Strong attention to detail

**Highlights**

* Computer aided manufacturing software – Unigraphics Siemens NX 9.0 (CAD/CAM and Motion Simulation)
* Mechanism design and analysis expert via Finite Element Analysis & Modeling (FEA & FEM)
* Talented technical writer and excellent communication skills
* Stress and strain analysis (tension and compression test)
* Advanced in Microsoft Office, Visual Basic, Project and Visio
* Water and steam systems
* Highly skilled in 3D and 2D CAD, C++ and G-code
* MATLAB and Maple T.A
* Die cast design and fabrication
* MathWorks SimuLink

**Experience**

***Stone Mason* at Eskape Landscapers** － *Ajax, ON - May 2014 to Current*

* Carry out measurements and tolerances for infinity pools and natural stone walls. In charge of ordering stone for company with minimal waste
* Worked with several construction machinery
* Produce reinforced cement mixtures for different applications of Landscaping
* Carry out 2D design, drafting and measurements of client's backyards
* Work with electricians, plumbers and many other tradesmen to further increase knowledge in construction and engineering

***Graphic Designer* at AnS Kitchen and Mill Work** －*Etobicoke, ON – Feb 2015 to Jan 2016*

* Implement customer cabinet designs using Unigraphics NX 9.0 CAD Software
* Designed kitchen cabinets for clients needing a visual design of custom cabinets
* Produced engineering drawings for clients
* Work mill machines which produce cabinet components. Assemble and finish cabinet components for clients

***Alteration Designer* at Diamond Dry Cleaners and Tailoring** －*Scarborough, ON- Mar 2012 to Sep 2014*

* Provided accurate measurements for clothes needing alteration. Learned to value customer's choice and deliver the fit for clothing they needed and expected.

***Security/Safety Inspector* at Executive Security Services** － *Scarborough, ON - Jan 2013 to Mar 2014*

* Detect, prevent and secure any threats to building parameter. Deal with building's power system along with fire detection system.

**Education**

**B. Eng. (Hons),** **Mechanical Engineering - Comprehensive**

**University of Ontario Institute of Technology －Oshawa, ON Canada Overall GPA:** 3.35 **Major GPA**: 3.95

**Final Year Capstone Project:**

* + Design and development of a hybrid rocket vehicle capable of launching a 12U CubeSat to the Karman line (Apogee of 100km)
  + Design and development of the avionics system (telemetry data, thrust vectoring system), rocket chassis and rocket body
  + 3D-printed several components of the rocket body
  + Worked along group members to write and implement launch codes for rocket’s launch and descent

**Projects**

* Rickshaw mechanism prototype and CAD design built for Dr. Remon Pop-IIliev. Includes model designed on NX Nastran and its corresponding motion simulation. Technical report along with presentation also completed.
* Home SMART Power monitoring system which provides live-time Power feedback for clients to see their power usage. Python programming language was learned along with a GUI interface.
* Landing gear prototype and CAD design built for Dr. Remon Pop-Illiev.
* Bicycle made for seniors designed on NX Nastran 9.0 along with its motion simulation. Several mechanisms and their motions were explored (rack and pinion along with pneumatic steering system)
* Built a model robot arm using Mindstorms Lego kit. Robot arm provided rotational and translational motion from an input conveyor belt to three output conveyor belts. Model was designed along with its motion simulation on NX Nastran 9.0.
* Built a multitasking vehicle made to complete a task for Ontario's Engineering Competition.
* Did calculations and a technical report for two steam power plants. Analyzed different power cycles and their efficiencies.

**Affiliations /Volunteer Work**

* Member of the Institute of Electrical and Electronics Engineers
* Member of the Ontario Society of Professional Engineers
* Part of Ontario's Masons Group
* Participated at the Ontario Aerospace Council (OAC) Research and Technology Event

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**Accomplishments**

Education

* + Placed 1st in Mechatronics Engineering Competition – Built an autonomous robot to navigate through a map while dodging obstacles in its path
  + Placed 2nd at the Internal Engineering Competition (IEC) at UOIT

Business Development

* + Enabled Eskape Landscapers to save $7500 a year by providing necessary masonry knowledge to cut stone expense and provide top of the line landscaping quality
  + Promoted to Foreman in 6 months
  + Enhanced business income for AnS Kitchen and received a bonus along with trip to Washington D.C for being top employee
  + Received 2 mason of the year award and 1 foreman of the year plaque