

MOAAZ ELSAYED, EIT

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PROFESSIONAL SKILLS

- Skilled in design software such as **AutoCAD**, Autodesk **Inventor**, **Onshape**, **Meshlab**, **Sketchup** and **Catia V5** through university and work related experience.
- Experienced in **MATLab/Simulink**, **Unity3D**, **Neo4J**, **Arduino**, **PBasic**, **PSpice**, **C**, **C#**, **JavaScript**, **Node.js**, **Mocha** and **HTML/CSS**.
- Proficient in **reading and interpreting designs**, **blueprints** and **engineering specifications** gained through work experience.
- Exceptional **communication** and interpersonal skills gained through work experience with customers.
- Exceptional **group work** and **leadership skills** gained through university projects.
- Computer literate with proficiency in a wide variety of applications.
- Skilled in Microsoft Office programs such as Word, Excel and PowerPoint.
- Fast learner and high **analytical thinker** with skills to assess a variety of difficult problems.

EDUCATION

- Bachelor of Applied Science Mechanical Engineering- Co-op** August 2015
University Of Windsor, Windsor, ON
UWSA Engineering Student Representative
Average: -A
- Graduate of Distinction with Honors** May 2010
Galileo Magnet High school, Danville, VA
F.I.R.S.T Robotics Outstanding Contribution Award

EMPLOYMENT

- Brave Control Solutions** Windsor, ON Fall 2015 - Present
Controls Specialist | Developer
- Developing accurate customer specifications through visual modeling and simulation using Unity3D.
 - Testing PLC software to be used in factory machinery using Unity3D with internally developed software.
 - Testing different case scenarios on vehicle routing for FATA parking garage using mocha with Unity3D.
 - Developing and filtering models and meshes from point cloud through Meshlab and similar software.
 - Assisting Controls Engineers in designing and updating project material through AutoCAD.
 - Ensuring all design changes are tracked, logged, and submitted to the Design Supervisor.
- Brave Control Solutions** Windsor, ON Fall 2014
Controls COOP Engineer Technologist Student
- Led Essex Engine's Ford plant in an ECPL safety placard update project on crankshaft lines.
 - Assisted the Controls Engineers in designing and updating project material through AutoCAD for Nemak, Ford, and Valiant projects.
 - Ensured all design changes are tracked, logged, and submitted to the Design Supervisor.
- Valiant Machine & Tool Inc.** Windsor, ON Winter 2014
Mechanical Engineering COOP Student
- Assisted the Design Supervisor in preparation of all processing related material for customer meetings and presentations.
 - Sketched, laid out, and detailed drawings to Valiant and customer specifications
 - Ensured all design changes are tracked, logged, and submitted to the Design Supervisor.
 - Attended and participated in all DFMEA meetings.
- Kautex Textron** Windsor, ON Summer 2013
Intern Validation Technician
- Setup and executed testing according to Testing Lab Work Instructions, Validation Engineer's guidance, customer specifications and QS9000.

- Wrote reports on test results for review of the responsible Validation Engineer.

Larry's Carpentry Windsor, ON Carpenter's Assistant

Summer 2012

- Assisted carpenter by using a wide variety of tools and devices used in carpentry and construction.
- Constructed different projects ranging from building a complete garage, to building whole wooden decks.

RELEVANT PROJECTS COMPLETED

Unibo Self-Balancing Vehicle

Summer 2015

- **Invented and led project** in the design and build of a one wheeled self-balancing vehicle for Capstone. This project utilized **control theory** in the design of lateral and longitudinal balancing systems for a one wheeled board. Team consisted of 6 members from different faculties to accomplish this task.

Energy Control & Power Lockout (ECPL) Project

Fall 2014

- Led Project that included the designing of ECPL Placards for machinery in **Essex Engine Ford** plant. Different machines in the crankshaft lines were analyzed for hazardous energy sources; informative placards about these sources were then made for the purpose of lockout devices and personnel safety.

Windsor Engineering Competition (1st Place Winner)

November 2011-2014

- In this competition, engineering students are faced with several real world engineering problems that range from bridge construction, displacement of fluids under certain conditions, to the design and building of a front-end vehicle impact system. Students are then forced to use **engineering concepts** to build devices that would **incorporate solutions**.

Engineering Efficiency Projects

Summer 2013

- This project included **designing and the construction** of several projects such as tank lifter, rolling forklift, filler pipe shelving, and filler bottle system in the workplace to aid with different testing. These were devised to provide an **efficient and safe work environment** for their users.

Globalization Project

Fall 2011

- A product had to be **invented** that could be applied to a real world market. **Kinetic Rechargeable Heating Insoles** were invented in this project. Parts of this project included finding the **market, feasibility, each machining / manufacturing process, bill of material (BOM), floor plan, business plan,** and **overall company structure**.

F.I.R.S.T Robotics Competition

Winter 2010

- In this project, several components such as gears, motors, servos and several other devices were used to build a **remote controlled robot**. This robot was programmed to **compete in a country wide competition** involving different obstacles. A **plaque was received** for extraordinary work.

AFFILIATIONS

- ENACTUS Windsor | **Research and Development Team Member** 2015-Current
- Student Operated Computing Resources (SOCR) | **Member** 2013-Current
- Ontario Society of Professional Engineers (OSPE) | **Member** 2013-Current
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) 2013-Current
- Windsor Regional Science, Technology & Engineering Fair | **Judge** Winter 2015
- F.I.R.S.T Robotics | **Volunteer** Winter 2014
- University of Windsor Student Alliance (UWSA) | **Engineering Representative** 2012-2014
- University of Windsor Engineering Society (EngSoc) | **Board Member** 2012-2014
- ASHRAE | **Student Branch Secretary** 2013-2014

REFERENCES

- Available upon request