# MOAAZ ELSAYED, EIT

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## PROFESSIONAL SKILLS

- Experienced with **MATLab/Simulink**, **Unity3D**, **Arduino**, **PBasic**, **PSpice** software.
- Skilled in **C**, **C#**, **JavaScript**, **HTML/CSS,** and **Cypher(Neo4J)** languages.
- Proficient in **React**, **React Native**, **Node.js**, **Mocha.js,** and **.NET** frameworks.
- Experienced with **Google Places**, **Google Maps, Google Cardboard, Oculus, Myo armband, Firebase,** and **Android** APIs & SDKs; In addition to **jQuery, Flux**, **Reflux**, **Bootstrap** libraries.
- Familiar with **Git**, **RegEx, Node Red, Linq** and **Unix Shell** tools.
- Skilled in design software such as **AutoCAD**, Autodesk **Inventor**, **Onshape**, **Meshlab**, **Sketchup** and **Catia V5** through university and work related experience.
- 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 Computer Science for University Graduates** December 2017
**University Of Windsor**, Windsor, ON

**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

## EMPLOYMENT

**Brave Control Solutions** Windsor, ON Fall 2015 - Present
**Controls Specialist | Software Developer**

- Developing accurate customer specifications through visual modeling and simulation using C# & Unity3D.
- Testing PLC software to be used in factory machinery using Unity3D internally developed bridge.
- Testing different case scenarios on vehicle routing for FATA parking garage using mocha tests with Unity3D.
- Programming JSON/XML parsers to develop complete 3D models of a garage from database.
- 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 Summer 2012
**Carpenter's Assistant**
- 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.

**Dollar Mart Plus** Danville, VA July 2008-June 2009
**Assistant Manager**
- Monitored sales activities to ensure that customers received satisfactory service and quality goods.
- Examined merchandise to ensure that it is correctly priced and displayed and that it functions as advertised.
- Reviewed inventory and sales records to prepare reports for management and budget departments.
- Performed work activities of subordinates, such as cleaning and organizing shelves and displays and selling merchandise.

## RELEVANT PROJECTS COMPLETED

**Hack the North Hackathon (Bloomberg 'Best App' Mini Prize)** Fall 2016
- Helped create app named **Tim's in the Middle**. This app uses geolocation to find a midpoint between multiple locations which it then uses to locate the nearest Tim Horton's. It's ideal for arranging group meetings, setting up Kijiji meet-ups, and all the other miscellaneous activities which require a non-formal meeting place.

**NASA SpaceApps Hackathon (1st Place Winner)** Summer 2016
- Led project to design and program a virtual reality environment named **SerenityVR**. It was created to take the astronaut away from the confined spaces that they're faced with every day as part of space travel. Spaceflight is known to create both physical and psychological damages to the body. With **SerenityVR**, we are aiming to reduce these damages through Earth-like sensory & physical activities.

**Amis (Social Media Network)** Summer 2016- Current
- Currently leading a project in the development of a social media network that connects travelers. This project is being developed for both **Android** and **IOS** through the **React Native** framework in addition to **Firebase** for database, authentication, messaging, and analytics.

**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.

Visit website for additional projects. www.moaaze.com

## AWARDS

- NASA SpaceApps Challenge - Global Nominee
- ENACTUS Canada Community Service Leadership Award
- Windsor Engineering Competition (WEC) - First Place
- Ontario Power Generation University Engineering Award
- Xerox Graphical Communications Award
- DesRosiers Endowment for the Advancement of Automotive Studies
- F.I.R.S.T Robotics Outstanding Contribution Award
- National History Day State Competition - First Place
- President's List for Outstanding Academic Achievements
- Board Of Education Diploma Seal For Excellence In Civics Education
- The Center for Holocaust, Genocide, and Human Rights Studies Award
- Advanced Studies Diploma With Governor's Seal
- Graduate of Honor & Distinction
- Board Of Education Seal

## AFFILIATIONS

- ENACTUS Windsor| **Research and Development Team Member** 2015-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** 2015-2016
- 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
- Community Centre Grade-School Tutor 2013-2016
- Community Centre Windsor Directory Project | **Committee President** 2014-2015
- Charity Week Canada | **Volunteer** 2013-2014
- Orphan Sponsorship Program | **Volunteer** 2013-2014
- Windsor NDP Election Campaign | **Volunteer** 2011-2012

## REFERENCES

- Available upon request