

# Moaaz Elshabasy

Computer Engineering Student

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## EDUCATION

Memorial University of Newfoundland |

St. John's | NL Sep2021 - Present

- Bachelor of Computer Engineering
- Term 4 (2nd Year), Class of 2026
- Current GPA: 4/4

## SOFTWARE SKILLS

- C, C++, C#, Java, JS and Python
- HTML and CSS
- SQL And MySQL
- Autodesk AutoCAD and Onshape
- MATLAB, Simulink, and OrCAD PSpice
- Microsoft Word, PowerPoint, and Excel
- Arduino Uno
- Oscilloscope, Multimeter, and AD2
- Figma and UX/UI
- Visual Studio Code and Unity
- Amazon Web Services

## INTERPERSONAL SKILLS

- Dedicated and inspiring team leader
- Strong written and verbal communication skills
- Problem solver and flexible
- Teamwork and independent work
- Time management skills
- Public speaking

## TRAINING/CERTIFICATION

- Onshape: CAD Certification
- WHMIS Certification
- UX/UI Design
- Cyber Attacks/Counter Attacks Fundamentals
- Tech Stewardship
- Amazon Web Services Essentials
- Standard First Aid

## AWARDS

- PEGNL Bursary (1500\$)
- Chevron Canada Resources Engineering Scholarship (1080\$)
- 1st place As/AL Mathematics - Jubail, KSA
- 2nd place As/AL Physics and Chemistry - KSA

## INTERESTS

- Cyber security
- Video games
- Telecommunication
- Swimming
- AI/ML
- Drawing

## ENGINEERING TEAMS

Phoenix Aerospace | Software Team Member | St. John's | NL

Aug 2022 - Present

- Collaborating with the software teams to build a UAV that uses motion sensors to avoid barriers.
- Programming a script to control the drone's movement in all three axes.
- Performed unit testing and integration testing to ensure proper functionality of written code.

## PROJECTS

Personal Portfolio | HTML/CSS | Personal Project

Feb 2023

- Created website using HTML/CSS to display my experience.
- Used CSS Animation to give the website a lively atmosphere

Cyber Security Authentication | C++ | Personal Project

Feb 2023

- Developed an authentication method for accessing accounts inspired from RSA SecureID.
- Created a temporary database to test the method and its reliability.

Simon Says Game | Python | Personal Project

Jan 2023

- Coded a fully functioning Simon says game with several modes and difficulties using the Phidget.

Hospital Service Application | Figma | Personal Project

Dec 2022

- Developed an App for hospital services using UX/UI design fundamentals.
- Conducted research to define the most accessible and sufficient design for the app.

2D Turn-Based Game | Python | Personal Project

June 2022

- Programmed a 2D turn-based combat game using Arduino, including an OLED screen to display the player's status and a button to help the player avoid further damage.
- Improved game performance by adding graphics and sound effects using Python libraries.
- Troubleshoot and debugged the game to ensure high game optimization.

Sled CAD design | Onshape | MUN | St. John's | NL

April 2022

- Led a team of four in creating a 3D model for a sled suitable for kids with mobility issues.
- Evaluated multiple design options as a team.
- Presented the final design of the sled in a technical report using Microsoft word and PowerPoint.

UGV | Robotics | Russian Cultural Centre | Alexandria | Egypt

2019

- Manufactured a UGV (Unmanned Ground Vehicle) using Arduino Uno and a variety of sensors that decides the UGV's movement.

## WORK EXPERIENCE

Digital Literacy Mentor | MEO | St. John's | NL

Jan – April 2023

- Engineered Programming and robotics workshops for school students interested in engineering
- Worked closely in a team environment to develop and deliver in-person and virtual initiative that would include specialized workshops to promote a career in engineering
- Programmed and used robotics and integrated circuits during engineering outreach sessions to help promote a career in STEM to prospective high school students and hosted in-person engagement activities

Tutor | EOSSC | St. John's | NL

Sep 2022 – Present

- Tutoring engineering students in Python, graphics and design, circuit analysis, mathematics, and physics.
- Explain to students how to study course material effectively enhance their overall academic performance.
- Teaching students creative methods for studying and preparing them for examinations improving their overall grades by 30%.

Customer Service | Moo Moo's Ice Cream | St. John's | NL

May – Sep 2022

- Greeted customers, processed transactions, and resolved concerns.
- Trained new employees and supervised their work.
- Developed strong multitasking skills to manage daily responsibilities, such as organizing the work environment and managing stock.

School Librarian | Jubail International School | Saudi Arabia

2018- 2020

- Supervised library operations during the librarian's absence.
- Created Excel spreadsheets to manage patrons' information and track books borrowed.
- Coordinated operation of filling and shelving of library materials and other supplies.

## VOLUNTEER EXPERIENCE

Climate Change Awareness Movement | Alexandria | Egypt

2018

- Created a climate change awareness video to help the climate change awareness movement in the city
- Led a team of 5 to ensure successful development of a high-quality video

Community Service | Jubail | Saudi Arabia

2018- 2020

- Organized various events at Jubail International School, including science and sports events.
- Contributed to charity movements and assisted hundreds of low-income elderly and disabled individuals
- Participated in tree planting and assisted in making the city greener and to combat climate change.