

Neveen Ashraf Khalil

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Objective

Fresh graduate Mechatronics Engineer seeking a job in a leading organization to apply theoretical knowledge and analytical thinking which provide practical solutions to real-world problems to aid the organization.

Experience

- **Online Session Lead | Digital Egypt Cubs Initiative Project, Almentor Egypt (Dec 2023 – Present)**
 - Conducted IT and computer science training sessions, advancing the technical skills of students in grades 7-11 as per the curriculum designed by the initiative.
 - Created and integrated supplementary educational activities to enhance the learning experience, while strictly adhering to the company's educational policies and standards.
 - Responded to students' queries through the initiative's support system and provided timely feedback on their assignments, contributing to an effective learning environment.
- **STEM Instructor - Techademics. (Dec 2022 – Sep2023)**
 - Developing curriculums and lesson plans with activates and projects by using STEM concept.
 - Teaching kids about robotics and enhance them to create simple projects with Arduino.
 - Support students in coding using PictoBlox (scratch).
 - Developing and building Renewable Energy projects with kids achieving SDGs concepts.
 - Working in workshops with laser cutting machines and 3d printer for projects designs' ideas.

Technical Skills

- Python Programming Language
- C++ and C Programming Language
- Basics of MATLAB & Simulink
- SolidWorks Design
- **Tools:** SolidWorks -Protues- Arduino – Raspberry Pi – Microsoft Office

Education

Higher technological institute at tenth of Ramadan city. (2017 – 2022)

- **Faculty of Mechanical Engineering – Mechatronics department.**
- **Accumulative Grade:** Distinct. (92.5%)

Graduation Project: Solar-charged delivery robot

- The project aimed to deliver products to other pointed places which will help the society needs with reducing the infections through pandemics.
- It is aimed to manufacture a product that achieve some of SDGs.
- The project was designed using SolidWorks and was coded using python language and uploading to Raspberry Pi and Arduino boards.
- **Graduation project grade: Excellent.**

Technical Offline Training

- **Artificial Intelligence course at NTI (June -August 2022)**
 - Learned python programming required for AI.
 - Learned math and statistics required for AI.
 - Trained on various algorithms for machine learning.
 - Get familiar with machine learning and deep learning applications.
 - Trained on building models using TensorFlow and Keras.
 - Get familiar with YOLO.

Courses

- Control of Mobile Robots (November 2020) [Coursera](#)
- Programming Fundamentals: Foundations (September 2021) [LinkedIn Learning](#).
- Learning MATLAB (September 2021) [LinkedIn Learning](#).
- Programming Fundamentals: Beyond the fundamentals (October 2021) [LinkedIn Learning](#).
- Programming Foundations: Data Structures (September 2022) [LinkedIn learning](#) .
- Programming for Everybody (Getting Started with Python) (November 2022) [Coursera](#)
- Learning How to Learn. (November 2022) [Coursera](#)
- Python Data Structures (December 2022) [Coursera](#)
- AI For Everyone (January 2023) [Coursera](#)
- Artificial Intelligence on Microsoft Azure (February 2023) [Coursera](#)

• Projects

- **Quadcopter Simulation project.**
 - This team aimed to design a general quadcopter which could be used in several needs. The quadcopter was designed and analyzed using SolidWorks software program. It was exported into SimScape environment to make models in Simulink as it was represent the relation of each part of the quadcopter to other and how each part related to the other.
- **Arduino mobile gimbal.**
 - This project depended on how it could be self-stabilized using IMU sensor with servo motor for the rotational movements. The mechanical parts of the project was made with 3D printed parts with good density which was robust enough. The project was written with C Arduino.
- **Logo Design using G&M codes.**
 - The project aimed to apply all the G and M codes learnt during the semester by drawing a logo of brand , then upload it do a milling machine to start working in the specimen.

Competitions

- MATE ROV 'Egypt Regional Competition' at Arab Academy for Science. (2021-2022)
- InnovEgypt Entrepreneurship program
 - Reached the ideation phase.
- Leaders league Completion organized by YLF :
 - First place in social media completion.
 - Second place in technical manufacturing category.

Volunteering Experience

- Volunteer as a media and marketing member in the IEEE HTI branch.
- Volunteer as a hardware member in the Sailfish ROV team season 2021'.
- Volunteer as a software member in Sailfish ROV team season 2022'.
- Volunteer as chassis and ergonomics member in Apex Racing Team season 2022'.

LinkedIn Profile

[Neveen Khalil](#)

Language

- **Arabic : Native.**
- **English: Intermediate**

Personal Information

- **Date of Birth:** 18/10/1999
- **Nationality:** Egyptian