Mohamed Mahmoud Rezk

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Education

Class 2025	**Bachelor of Science in Computer Engineering** *Ain Shams University* Junior / CGPA: 3.7 / 4.0
Class 2020	**High School** *Dakahlia STEM School* CGPA: 4.0 / 4.0 (1st Rank)

Experience

Aug-Oct-2022	**Research Intern** *ASU - Dynamic Systems & Digitalisation Cluster* Project title : Mapping of artificial acoustic emission sources on wind turbine blades I implemented several optimization algorithms with some bench-markings like: - Particle Swarm Optimization - Simulated Annealing - Simplex (Nelder-Mead) Method - [Code](#) / [Report](#)
Mar-Apr-2022	**Video Editor** *CAMTECH CNC* Video editing for engineering courses, I used FFmpeg for bulk conversion, Davinci Resolve scripting, and python to edit and create high-quality videos.

Hackathons & Competitions

Aug-Oct-2022	**NASA Space Apps Cairo** - Implementing an International Space Station (ISS) tracking system based on the laws of orbital mechanics and astronomical algorithms. - People Choice Award Nominee - 500$ AWS Credit Points Prize - [Code](#)

Awards & Honors

Aug-Oct-2022	**Summer of Math Exposition (SoME#2)** I was one of the top 100 entries in Summer of Math Exposition (SoME#2) organized by Grant Sanderson (3Blue1Brown), and Leios Labs. Also, I was in the top 25 non-video entries (articles, games,etc.). - [Article](#)

Skills

Python	Bash	LaTeX
C/C++	Research	Simulation