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## Education

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| <b>Arab Academy for Science and Technology and Maritime</b><br><b>Alexandria, Egypt</b><br>Bachelor of Electrical Engineering and Automation<br>GPA 3.6 | Sept 2019 - July 2024 |
| <b>University of Northampton</b><br><b>Northampton, England</b><br>Bachelor of Electrical Engineering and Automation (Dual Degree)<br>First in class    | Sept 2021 - July 2024 |

## Professional Experience

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| <b>Elsewedy Electric (Elsewedy Utilities)</b><br><b>Operation Engineer</b>                                                                                                                                                                                   | 7 <sup>th</sup> of Oct 2024-Present                   |
| Manage LV and MV networks, create maintenance timelines, coordinate with clients and the electricity company, ensure efficient scheduling, and facilitate seamless project execution while prioritizing compliance, reliability, and client satisfaction.    |                                                       |
| <b>Hassan Allam &amp; Consolidated Contractors Company (JV)</b><br><b>Site electrical intern Engineer</b>                                                                                                                                                    | 6 <sup>th</sup> of July 2024-1 <sup>st</sup> Oct 2024 |
| As a Site Electrical Intern Engineer at Hassan Allam & Triple C (JV), I work on the first, second, and third fix installations for Alamin Towers at LD00 zone and Marine Towers projects. I ensure compliance with project specifications and shop drawings. |                                                       |
| <b>PEPSICO</b><br><b>Shadow operation Intern Engineer</b>                                                                                                                                                                                                    | 17 <sup>th</sup> of Oct 2023                          |
| PepsiCo's production commitment, seen in quality control and safety measures during shadowing, emphasized excellence, particularly through meticulous processes and safety protocols.                                                                        |                                                       |
| <b>SUEZ</b><br><b>Shadow operation Engineer</b>                                                                                                                                                                                                              | 14 <sup>th</sup> of Aug 2023                          |
| Shadowing as a process operation engineer, gained insights into water treatment across five substations. Engaged in equations, SCADA systems, and manual controls, enhancing understanding and contribution.                                                 |                                                       |
| <b>EPROM</b><br><b>Electrical and Instrumentation Intern Engineer</b>                                                                                                                                                                                        | 9 <sup>th</sup> Jul 2023 – 19 <sup>th</sup> Jul 2023  |
| Explored petrochemical industry standards, delving into protection, earthing, motors, and ATICS. Acquired expertise in control methods, instrument communication, sensors, and valves.                                                                       |                                                       |
| <b>Safety Intern Engineer</b>                                                                                                                                                                                                                                | 21 <sup>st</sup> Feb 2021 – 25 <sup>th</sup> Feb 2021 |
| Received extensive workplace safety training covering general practices, ergonomics, stress, drug policies, violence prevention, fire and electrical safety, and injury prevention.                                                                          |                                                       |
| <b>AAM (Arab Academy Motors)</b><br><b>Member of Electrical Powertrain Sub- team</b>                                                                                                                                                                         | Jan 2022 -Apr 2023                                    |

Led EMRIX 208 Axial Flux motor control sub-team, orchestrating accumulator design, battery calculations, and insulation optimization, culminating in securing Tesla sponsorship.

**Member at Electronics Sub-team**

Oct 2019 -Sept 2022

Revamped Honda CBR 600RR 2003 Engine Loom, designed data acquisition, telemetry systems, and bolstered safety features, making significant contributions to the sub-team.

**MAPSO Marine Technology**

**Electrical and Instrumentation Intern Engineer**

15<sup>th</sup> Aug 2022 – 30<sup>th</sup> Aug 2022

Attained comprehensive knowledge of large ships and yachts' electrical infrastructure and control systems. Holistic understanding of SCADA and PLC systems, along with knowledge of safety protocols governing maritime operations.

**Alexandria Electricity Distribution Company**

**Electrical and Instrumentation Intern Engineer**

31<sup>st</sup> Jul 2022 – 18<sup>th</sup> Aug 2022

Studied classic control systems, emphasizing design. Led a PLC project, gaining hands-on experience. Acquired comprehensive knowledge of power system protection in the grid.

**Egyptian Petrochemical company**

**Electrical and Instrumentation Intern Engineer**

4 Jul 2021 – 15 Jul 2021

Gained direct experience in power plant operations, focusing on power output control, transformer design, and managing power transmission to the grid.

**Courses**

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|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| • Primavera P6 course – Engineering Track                                                                                                    | June 2025 – July 2025                                                                                                          |
| • MS Project course – Engineering Track                                                                                                      | June 2025 – July 2025                                                                                                          |
| • MV Cables Remoulded & Cable Accessories Technologies – ElSewedy Cables                                                                     | 19 <sup>th</sup> of Nov 2023                                                                                                   |
| • Dar Al-Kahrbaa training diploma on the design of electrical systems, performing shop drawings, studying, and tendering of electrical works | 25 <sup>th</sup> Jun – 4 <sup>th</sup> Sept 2023                                                                               |
| • Control Valve Engineering – WEPCO                                                                                                          | 17 <sup>th</sup> May – 21 <sup>st</sup> of May 2023                                                                            |
| • Substations & Electrical Power Systems: Component, Protection & Control Workshop – ElSewedy Electric AAST                                  | 10 <sup>th</sup> , 13 <sup>th</sup> , 17 <sup>th</sup> , 20 <sup>th</sup> , 24 <sup>th</sup> , 27 <sup>th</sup> , of Sept 2023 |
| • MEP-Mechanical, Electrical and Plumbing Workshop – Eduvate and AAST                                                                        | 24 <sup>th</sup> , 31 <sup>st</sup> of May 2023                                                                                |
| • Expert talk Seminar – AAST, Schneider Electric, GEWISS, EMASS and Eduvate                                                                  | 16 <sup>th</sup> of March 2023                                                                                                 |
| • Electrical Vehicle Design Workshop – Formula Student Germany                                                                               | 16 <sup>th</sup> of Apr 2021                                                                                                   |
| • SIMULINK Onramp – MathWorks Company                                                                                                        | 20 <sup>th</sup> of Sept 2020                                                                                                  |
| • MATLAB Onramp – MathWorks Company                                                                                                          | 28 <sup>th</sup> of May 2020                                                                                                   |
| • SIMULINK Onramp – MathWorks Company                                                                                                        | 20 <sup>th</sup> of Sept 2020                                                                                                  |
| • MATLAB Onramp – MathWorks Company                                                                                                          | 28 <sup>th</sup> of May 2020                                                                                                   |

**VOLUNTEER EXPERIENCE**

**AAST Radio**

**President**

Sept 2022 – August 2023

**Head of correspondnece**

Feb 2021 – Sept 2022

**Enactus AAST**

**Project Management Team**

Sept 2020– Sept 2021

**YESISIT'12**

**Volunteer**

3<sup>rd</sup> of July 2022 – 4<sup>th</sup> July 2022

**Language**

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|-------------------|--------------------|
| • Arabic (Native) | • English (Fluent) |
|-------------------|--------------------|

## **Skills**

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Team-Management – Teamwork – Self-learning – Problem-solving – Communication – Leadership –Project management – Electric system design – Schematic Electrical – Electrical Inspection – Classic Control – Troubleshooting – TIA Siemens– Critical Thinking – BOQ – Protection – Control Valves – Troubleshooting – MS office – DIALux – Autocade – ECODIAL – ETAP – Primavera P6 – MS Project