

Andrew Ashraf Zakaria

MECHANICAL ENGINEER

Major: Mechanical Design and Production | Minor: Industrial Engineering

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Objective

A highly motivated Mechanical Design and Production Engineering graduate with a minor in Industrial Engineering. Strong background in mechanical design, additive manufacturing, and operations improvement. Eager to contribute to supply chain, manufacturing, or technical office functions through a blend of hands-on experience and digital tool proficiency.

Work Experience

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|--|---------------------|
| 1) Robotics instructor at happy makers academy | Jun 2023-Oct 2023 |
| <ul style="list-style-type: none">• Preparing content for 6-18 years students• Teaching programming concepts• Teaching design• Leading sub teams of instructors | |
| 2) Co-Founder of AB electronics store | Mar 2022 – Jan 2025 |
| 3) 3D printing service advisor for a startup | Aug 2023-Jan 2024 |

Courses and Trainings Experience

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|---|-------------------|
| 1. P&G Supply Chain and Manufacturing Academy | May 2025 |
| 2. Car engines maintenance at luban workshop, ASUENG | 2022 |
| 3. PCB fabrication at ERI | 2023 |
| 4. Industrial Engineering Internship at Legrand Egypt. | Jul 2024-Aug 2024 |
| <ul style="list-style-type: none">• Applied Lean Manufacturing principles, including full 5S implementation for a new production line and label printing area done process routing and production line configuration.• Developed skills in data analytics, including data cleaning, transformation, and preparation using Excel and Power Query.• Led the digital transformation of an injection audit process by developing a custom PowerApps application, reducing process time by 36%.• Automated routine workflows using Power Automate, and built a live-updated Power BI dashboard integrated with the audit app.• Designed and manufactured a new tool model that optimized time, effort, and efficiency for the new production line. | |
| 5. Graduation Project in Industrial Engineering at Danone Egypt. | Oct 2024-Jun 2025 |
| <ul style="list-style-type: none">• Improved production line efficiency by applying Lean tools, including SMED (30% reduction in changeover time), and Focused Improvement within TPM. | |

- Increased Overall Equipment Effectiveness (OEE) from 64% to 71% through quality enhancements and downtime reduction measures.
- Designed and implemented a standardized quality inspection system and introduced a Filtration Gauge, reducing product defects and downtime by 70%.
- Created an optimized production scheduling model for FMCG dairy lines to minimize production time, cleaning cycles, and changeovers, aligned with product shelf-life and weekly demand.
- Applied TPM pillars (AM, PM) by analyzing and redesigning maintenance plans for improved asset reliability.
- Enhanced communication between operators and engineers through an information flow system application by PowerApps, improving responsiveness and operational transparency.

Leadership & Volunteering Activities

Aviation Club – [ASUENG]

- Participant (5th Place Rank) 2021
- Head, Mechanical Technical Support Team 2022
- Technical Support Director

Scouts Team Leader 2021–Present

Represented my academic level within the department 2022–Present

Education

Hadayek Al Maadi Official School, Thanwya Amma 2020

Student at Faculty of Engineering Ain Shams University 2020 - 2025

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Technical Skills

- Word
- Excel
- PowerPoint
- SolidWorks
- PowerApps
- Python
- AutoCAD
- Minitab
- MATLAB
- Arduino
- AI Tools
- Power Automate – Power BI

Soft Skills

- Presentation skills
- Communication skills
- Leadership
- Teamwork
- Time management
- Working under Pressure
- Commitment