

Andrew Ashraf Zakaria

MECHANICAL ENGINEER

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Military Status: Exempted

Objective

I am a recent Mechanical Design and Production Engineering graduate with a minor in Industrial Engineering, seeking an opportunity to start my career in a dynamic and growth-oriented environment. Through my academic and internship experience, I gained hands-on exposure to manufacturing processes, supply chain planning, and process optimization, along with strong proficiency in CAD tools, Excel, and Power BI. I am eager to contribute my technical knowledge, analytical mindset, and enthusiasm for learning to support your team's success and continuous improvement goals.

Work Experience

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|--|---------------------|
| 1) Co-Founder of AB electronics store | Mar 2022 – Jan 2025 |
| 2) 3D printing service advisor for a startup | Aug 2023-Jan 2024 |
| 3) 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 | |

Education

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|---|-----------------------------|
| 1) Thanawya Amma – Scientific Section | Overall Grade: 96.1% |
| Hadayek Al Maadi Official Language School | 2020 |
| 2) Bachelor of Science in Mechanical Engineering | GPA: 2.37 / 4.00 |
| Ain Shams University – Faculty of Engineering | 2020-2025 |
| Major: Mechanical Design & Production Engineering Minor: Industrial Engineering | |

Graduation Project in Industrial Engineering at Danone Egypt. Oct 2024-Jun 2025

- 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.

Courses and Trainings Experience

1. **OPEX Department Intern – Acrow Formwork Egypt Factory** **July 2025-Aug 2025**
Supported continuous improvement and lean manufacturing projects, including 5S auditing, process standardization, and fixture design to improve welding efficiency and overall production performance.
2. **P&G Supply Chain and Manufacturing Academy** **May 2025**
3. **Industrial Engineering Internship at Legrand Egypt.** **Jul 2024-Aug 2024**
 - 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.
4. **PCB fabrication at ERI** **2023**
5. **Car engines maintenance at luban workshop, ASUENG** **2022**

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 **2021–2025**

Technical Skills

- Microsoft Office (Word, PowerPoint, excel)
- Mechanical cad tools (SolidWorks, AutoCAD)
- Power platform (PowerApps, Power Automate, Power BI)
- AI Tools (ChatGPT, Gemini, DeepSeek)
- Electrical and programming tools (Python , Arduino, ESP, web)
- Minitab
- MATLAB

Soft Skills

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