

# Mahmoud Saad Farghal

Abbassia, Cairo, Egypt

0111 570 9266

[Mahmoud.saad.farghal@gmail.com](mailto:Mahmoud.saad.farghal@gmail.com)

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## Summary

Junior mechanical engineer with a strong academic background in Operations Management and Mechanical Design. In March I will be a Yellow Belt certified in Six Sigma. I helped with a team of design and production engineers to expand a production line to four times of its capacity. In university, I led a team of graphic designers and marketers to establish many campaigns for GATE student activity.

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## Education

B. Sc. in Mechanical Engineering, Al-Azhar University, 2012:2017

Accumulative Grade: (63%).

Graduation Project: Design and Planning of a Production Line for Washing Machines Factory

In our project, we designed a layout for the production line representing the whole process of manufacturing the body and the assembly of the components of the washing machine, followed by a feasibility study for the factory, including the total cost of creating and running the factory. The project was technically sponsored by **Electrolux**.

Project Grade: Excellent.

Sponsor



## Career experience

- Mechanical Design Engineer at [Advanced Metal Design](#), [08 Jan: Present 2018]

Worked on many projects that required cost estimation, material selection, mechanical design calculations, 3d modeling, stress analysis, and detailed engineering drawings. Reviewed designs with clients to make modifications.

- Mechanical Design Engineer at [JAZWA-Tech](#), [24 Jul: 24 Oct 2017]

Reverse-engineered a weighing-bagging machine and an air classifying machine for a production line of a peanut factory, supervised and guided the whole process of laser-cutting, welding and assembling the parts, and designed a number of conveyor systems.

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## Internship experience

- Intern, Cairo International Airport, Cairo, Egypt, [01 Aug: 30 Aug 2016]

The Internship covered: (1) Water Pumping and Processing Station. (2) Air Conditioning Unit (Compressors, Chillers, Air Turners, and Cooling Towers) (3) DMS Control for AC Unit. (4) Automated People Mover (Mini Metro) (5) Safety Procedures.

- Intern, Shoubra El-Kheima Power Station, Cairo, Egypt, [15 Jul: 15 Aug 2016]

The Internship covered: (1) Main Steam and Combined-cycle Power plants designing concepts. (2) Boilers, Furnaces, and Burners. (3) Steam Turbines, Gas Turbines, and Diesel Engines. (4) An overview of Heat Exchangers.

- Intern, Sugar Factory, Nag Hammadi, Egypt, [01 Aug: 30 Aug 2015]

The Internship covered: (1) Steam Boilers. (2) Steam Turbines. (3) Sugar Production Line. (4) Maintenance & Mechanical Workshop (Lathes, Shapers, Planners, and Grinding).

- Intern, Lada Egypt, 10th Ramadan City, Egypt, [01 Jun: 30 Jun 2015]

The Internship covered: (1) Welding Workshop. (2) Utility Platform (Compressors, Chillers & Pumps). (3) Painting Section. (4) Car Body Assembly.

- Intern, Al-Aluminum Misr, Nag Hammadi, Egypt, [15 Aug: 30 Aug 2013]

The Internship covered: (1) C.N.C Workshop. (2) Heat Treatment Lab. (3) Casting Section. (4) Lathes, Shapers, Planners and Grinding Workshops.

- Intern, PetroJet, Kattamia –Cairo, Egypt, [21 Jun: 11 Jul 2013]

The Internship covered: (1) Materials Selection Department. (2) Offers Department. (3) Design Department (4) Welding Workshop. (5) Mechanics Workshop.

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## Extracurricular Activities

- Social Media Committee Head at [GATE](#), [2016, 2017].
- Fund-raising Committee Member at [Meshwar](#), [2016].
- Media Committee Member at [GATE](#), [2015, 2016].
- Media Committee Member at [Basma](#), [2014].

### Participant at

- [2017] IDT (Ain Shams University).
  - [2016] ASC (Azhar University).
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## Courses and Skills

### Offline Courses

- [2016] Introduction to Robotics at [AZEX](#) [30 hours]
- [2016] SolidWorks at [Al-Azhar Science Club](#) [32 hours]
- [2016] English Conversation at [Spread Your Skills](#) [32 hours]
- [2013] Photoshop at [Resala Training Center](#). [20 hours]

### Online courses

- [2018] Six Sigma: Define & Measure from Technical University of Munich ([Edx](#)).
- [2017] 3D Printing Specialization (3 Courses) from Illinois University ([Coursera](#)).
- [2017] Machine Design Series I from Georgia Institute ([Coursera](#)).
- [2016] Materials Science from University of California, Davis ([Coursera](#)).
- [2016] Oil & Gas Industry Operations and Markets from Duke University ([Coursera](#)).
- [2016] Introduction to Steel from Tenaris University ([Edx](#)).
- [2016] A Hands-on Introduction to Engineering Simulation from Cornell University ([Edx](#)).
- [2016] Fundamentals of Engineering Exam. ([Coursera](#))

### IT Skills

- Familiar with Microsoft Package (Word, Excel, Outlook, and Windows).
- Excellent Command of: SolidWorks, Autodesk Inventor, AutoCAD, Advance Steel, Photoshop, Cinema 4D, AfterEffects and Keyshot.
- Basic Command of: ANSYS Mechanical, MATLAB, Fusion 360 and Adobe Illustrator.

### Linguistic Skills

- Arabic: Mother tongue
  - English: Very Good
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## Personal Data

Linked [in](#): [eg.linkedin.com/in/engmahmoudfarghal](https://www.linkedin.com/in/engmahmoudfarghal)

Military Status: Exempted.

Date of Birth: December 5th, 1992.