

## Ahmed M. Fathy Elbossily

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### CONTACT INFORMATION

ahmed.fathy.Elbossily@gmail.com

### EDUCATION

**Arab Academy for Science, Technology, and Maritime Transport (AASTMT)**,  
Heliopolis, Cairo

Master Degree, Mechanical Engineering Department. 2014 to 2018

- Grade: Excellent
- Field: Computational Material Science
- Advisor: Assoc. Prof. Mostafa R. A. Atia

**Omsk State Technical University (OSTU)**, Omsk, Russia

Diploma in Mechanics, 2017

- Grade: Excellent

**Military Technical College**, Cairo, Egypt

B.Sc. degree in Mechanics, 2008 to 2013

- Grade: Excellent

### WORK EXPERIENCE

**R&D Engineer - Egyptian Armed Forces**

2021 - Present

- Develop softwares needed to solve work problems.
- Apply systematic and analytic method of problem solving.
- Assist in developing product specificationsto meet application needs.
- Provide technical reports and process instructions.

**Part-Time Independent consultant - Udacity**

2018 - Present

- A consultant to Udacity educational platform.
- Providing projects reviews and other student support services in the fields of programming languages, computer vision, and AI.
- Reviewing courses materials before releasing.

**Advanced Systems Engineer - Egyptian Armed Forces**

2019 - 2021

- Lead the repairing team to perform overhaul to Honeywell AGT-1500 turbine engine.
- Lead planning and execution engine testing through multiple development phases focused on the control system and ECU response.
- Review data, analyze results, assess options, and recommend solutions to technical system-response challenges
- Provide on-site engine test support during critical test segments

**DSESTS LAB COMMANDER - Egyptian Armed Forces**

2017 - 2019

Direct Support Electrical System Test Sets (DSESTS).

- Performed all tasks required to troubleshoot, debug, repair and modify a wide variety of electronic control units (ECUs) and other line replaceable units.
- Used technical manuals and professional techniques in performing wiring, component installation, soldering, cable and harness assembly.

- Conducted and supervised training and development programs on proper repair maintenance procedures.

**Land Systems Engineer - Egyptian Armed Forces**

2013 - 2017

- Provide direct and general support for the M1A1 Abrams Tank.
- Troubleshoot the M1A1 Abrams Tank electrical and mechanical systems problems.
- Perform annual and semi-annual maintenance for the M1A1 Abrams Tank.
- Perform tests in the laboratory for the M1A1 Abrams Tank systems and fabrication documents.
- Participate in peer reviews of schematics and other drawings.

REFEREED  
PUBLICATIONS

1. **Ahmed M.Fathy**, Mohamed Hassan Abdelshafy, Mostafa R.A.Atia. "Modelling open-celled Aluminum foams structure using 3-D Voronoi diagram." *The Eighteenth International Conference on Applied Mechanics and Mechanical Engineering (AMME-18 2018)*. Cairo, Egypt.
2. **Ahmed M.Fathy**, Mohamed Hassan Abdelshafy, Mostafa R.A.Atia. "Numerical study of compression response of open-celled Aluminum foam structure using 3-D Voronoi diagram model." *3rd International Conference on Materials Science and Nanotechnology (ICMSNT 2018)* . Chengdu, China.

QUALIFICATIONS

- C++ Nanodegree Udacity Mentor.
- AI for Healthcare Nanodegree Udacity Mentor.
- Artificial Intelligence Nanodegree Udacity Mentor.
- Java Web Developer Nanodegree Udacity Mentor.
- Android Basics Nanodegree by Google Udacity Mentor.

TECHNICAL SKILLS

- Programming: C++, CUDA C/C++, Java, JavaScript, Python.
- Applications: Visual Studio, Android Studio, MATLAB, TensorFlow, Inventor, solidworks, Abaqus.
- Operating Systems: Microsoft Windows, and Linux.

REFERENCES

Assoc. Prof. Mostafa R. A. Atia (advisor)  
 Head of Mechanical Department (Mechatronics)  
 Arab Academy for Science and Technology and Maritime.  
 Heliopolis, Cairo E-mail: mrostom1@aast.edu