

Ahmed Abdel-Aleem Amin Farag

Mechanical Engineering Department
Assiut University, Assiut, Egypt 71516
Tel: (+20) 114-137-9230
ahmed.abdelaleem@aun.edu.eg,

PERSONAL INFORMATION

Citizenship : Egyptian
Marital status : Married

EDUCATION

M.SC. in Industrial Engineering ***Dec 2016***

Assiut University, Assiut, Egypt

- Thesis title: Optimization of Inventory Systems with Imperfect Production Processes.
- Core Courses Overall Grade: *Excellent (90.2%)*

B.SC. in Mechanical Engineering (Design & Production) ***June 2011***

Assiut University, Assiut, Egypt

- Accumulation Grade: *VERY GOOD* with Honours degree (81.36%), Ranked 3rd of 139 students.
- Project title: *Macro Scale Tactile Sensor Design for Soft Object Stiffness Measurements*.
 - Objective: Design and construct a macro tactile sensor for measuring soft tissue stiffness and testing it in order to evaluate the sensor before miniaturizing it to be used in medical applications (such as minimally invasive surgery-MIS).
 - Designed the sensor on ANSYS.
 - Fabricated the sensor in the faculty workshop
 - Project Grade: *EXCELLENT*.
 - **This project has awarded** the Young Innovators' Award-YIA from Nahdet El Mahrousa Association.

EMPLOYMENT

- ***Assistant Lecturer*** ***Jan 2017-Present***
Mechanical Engineering Department, Assiut University, Egypt
- ***Demonstrator*** ***Jan 2012-Jan 2017***
Mechanical Engineering Department, Assiut University, Egypt

PUBLICATIONS

- *Journal Papers*

1. A. Abdel-Aleem, M. A. El-sharief, M. A. Hassan, and M. G. El-sebaie, "Implementation of Fuzzy and Adaptive Neuro-Fuzzy Inference Systems in Optimization of Production Inventory Problem," Appl. Math. Inf. Sci., vol. 11, no. 1, pp. 289–298, 2017.
2. A. Abdel-Aleem, M. A. El-Sharief, M. A. Hassan, and M. G. El-Sebaie, "A surface response optimization model for EPQ system with imperfect production process under rework and shortage," Opsearch, 2017.
3. A. Abdel-Aleem, M. A. El-sharief, M. A. Hassan, and M. G. El-Sebaie, "Optimization of Reliability Based Model for Production Inventory System," Int. J. Manag. Sci. Eng. Manag., vol. 13, no. 1, pp. 54–64, 2018.

WORK EXPERIENCE

- *Teaching Assistant, Assiut University*

March 2013 up to now

- *Assisted in teaching the following undergraduate courses:*

- MD 432 CNC Machines for fourth Year Mech. Eng. Students (Production Section), (Four Semesters).
- MR 433 Die Design for fourth Year Mech. Eng. Students (Production Section), (Four Semesters).
- MD 422 Design and Production Laboratories for fourth Year Mech. Eng. Students (Production Section), (Four Semesters).
- MR 121 Production Engineering (1) for 1st Year Mech. Eng. Students (Four Semesters).
- MR 223 Theory of Metal Cutting and Applications for second Year Mech. Eng. Students (Four Semesters).
- MD 221-Machine Design (1) for second Year Mech. Eng. Students.
- MD 121-Machine Construction for 1st Year Mech. Eng. Students.
- MD 122-Stress Analysis for 1st Year Mech. Eng. Students (five Semesters).
- MD 321 Mechanical Vibrations for third Year Mech. Eng. Students (Power & Production Sections), (five Semesters).
- MD 222 Mechanics of Machines (2) for second Year Mech. Eng. Students (Five Semesters).
- MR 323 Metrology for third Year Mech. Eng. Students (Production Section), (Two Semesters).
- MD 421 Tribology for fourth Year Mech. Eng. Students (Production Section), (Fall 2013-14).
- MR 424 Quality Control Systems for fourth Year Mech. Eng. Students (Production Section), (Three Semesters).
- MR 321 Operations Research for third Year Mech. Eng. Students (Production Section), (five Semesters).
- Engineering Drawing for Prep. Year (five Years).

The last update: Apr. 2018

Industrial Training **27 Mar-6 Apr 2017**

- Course: Introduction to Six sigma and Lean Manufacturing.
- Trainees: LG Electronics Egypt Engineers (25 Engineers)

Industrial Training **12 Apr-20 Apr 2017**

- Course: Introduction to Six sigma and Lean Manufacturing.
- Trainees: SAMSUNG Electronics Egypt Engineers (21 Engineers)

SolidWorks Trainer at JELECOM Assiut **Dec 2014-Present**

- Train Engineers and students on the basic and Advanced Solidworks Levels

Part time Engineer **Dec 2016- Dec 2017**

The integrated Technical Education Cluster- Assiut at Assiut Mechanical Secondary School.

- Designing the MIG & MAG Welding workshop.
- The design includes design drawings of mechanical work and installations of welding cubicles including gas pipes, Air suction (Ventilation system) and connection of pipes between cubicles and gas storage.
- Education Development Fund-Cabinet of Ministers funds this project

Part time Engineer **May-June 2013**

The integrated Technical Education Cluster- Assiut at Assiut Mechanical Secondary School.

- Prepared a technical report on the state of all Machines and Laboratories inside Assiut Mechanical Secondary school to upgrade the school to a technical institute.
- Education Development Fund-Cabinet of Ministers funds this project

Designer **Nov 2010-Jan 2011**

The centre of Engineering Studies and Consultations of Faculty of Engineering at Assiut University.

- Worked in the design process of products of the Agricultural Equipment Factory at Dashlout City.
- Designed Chisel Plough and Dump Trailer.

UNDERGRADUATE PROJECTS**Test rig design for dynamic viscoelastic properties** **2009-2010**

- Designed test rig and manufactured it.

Design and analysis of PEM fuel cell **May-July 2009**

- Prepared the set-up and tested the cell.

Water Strider Robot **May 2009**

- Designed and manufactured a macro robot capable of moving on water surface.

- Participated in the Engineering Students 2nd Scientific Symposium at Assiut University.

Design A Skew Rolling Machine for Manufacturing Steel balls. March-May 2009

- The project discusses manufacturing steel balls by the method of skew rolling which produces semi-finished balls at high rate. The product is used in many applications like cement industries, ball bearings, etc.
- Participated in the Engineering Students 2nd Scientific Symposium at Assiut University.
- Designed the machine on Solidworks.

CO-CRUCIAL ACTIVITIES

Turnkey Multiple Training Systems Workshop Sep 9th 2014

- A joint CNC education initiative by Knuth and Siemens, Cairo Marriott Hotel, Zamalek

The Fifth Assiut University International Conference on Mar 29- 31, 2011. Mechanical Engineering Advanced Technology for Industrial Production (MEATIP 5)

- Prepared the conference Book & Member in the registration committee responsible for issuing tracking attendance and conference certificate.

CERTIFICATES

- *University Teacher Preparation Jan 2018*
- *IELTS Test (Score: 5.5) Oct 2017*
- *Research Ethics Aug 2017*
- *Legal Aspects in University Environment Aug 2017*
- *Quality Standards in Teaching-1 July 2017*
- *The English Language Proficiency Test (ELPT) Aug 2014*
- *Condition Monitoring May 2014*
- *Thermal Imaging May 2014*
- *Credit Hours System Mar 2014*
- *University Administration Mar 2014*
- *International Publication of Research Dec 2013*
- *Research Team Management Dec 2013*
- *Conference Organization Nov 2013*
- *(ICDL) International Computer Driving License Certificate Aug 2010*
- *Programming course on FUNC 21I CNC milling machine (level 2) Feb 2010*
- *Programming course on FUNC 21I CNC milling machine (level 1) Nov 2009*

LANGUAGE SKILLS

Arabic: Native or bilingual proficiency.

English: Very Good Written, listening, and spoken.

COMPUTER SKILLS

PROGRAMMING

C++

MATLAB

Maple

COMPUTER SOFTWARE

ANSYS finite element simulation software

Working Model 2D

CATIA

SolidWorks & CAMWorks

AutoCAD

CNC Simulator

PLM2000

Lingo System

ARENA

Design Expert

UNDERGRADUATE TRAINING

Aluminium Company of Egypt At Rolling Sector & Extrusion Plant *July 2010*

- 15 Days Training
- Learned Aluminum forming by Casting, Rolling, and Extrusion.

Kuwait & Arab States Company at VOLVO Training Centre *August 2009*

- 20 Days Training
- learned maintenance techniques of the mechanical parts of different cars

HOBBIES

- Teaching
- Listening
- Volunteer work