



Alexandria Higher Institute of Engineering Technology (AIET)

CURRICULUM VITAE

Lecturer: Asmaa Ahmed Abdelrehem Ibrahim

Department: Mechatronics

Personal Information

- Date of Birth: 7 Dec 1997
- Nationality: **Egyptian**
- Religion: Muslim
- Work Tel.: **+2-035754314** Mob: 01271323137
- Email: asma.ahmed@aiet.edu.eg

Current Occupation

Teaching assistant in Mechatronics department

Scientific Position

Teaching assistant
(2022- Now) Mechatronics department in AIET

Education and Academic Degrees

B. Sc. **Overall rate of appreciation:** 3.81 GPA
(2021) **Specialization:** Mechatronics
 Institute: Alexandria Higher Institute of Engineering and Technology

Language & Computer Skills

- English: Very Good
- Computer skill: Very Good

Teaching and Research Topics

Undergraduate tutorials as Teaching assistant	Date
Digital system design	2023/2024
Energy conversion 2	2023/2024

Mohamed Ahmed Abd-Elmoula Al-Sadani

TEL.: +2035773328

Mobile: +201279696924

Address: 6 oday ebn zaid, gleem, Alexandria, Egypt

E-mail: maldeni.82@gmail.com

mohammed.alsadani@aiet.edu.eg

Personal Information

Marital Status: Married , with 3 kids

Military Service: Exempted

Date of Birth: 4/8/1982

Nationality: Egyptian



Objectives

Position in Mechatronics fields

Current position

Assistant Lecturer at Mechatronic department at Alexandria Higher Institute of Engineering and Technology (AIET)

Academic achievement

- **Degree:** On going **PHD** in Electrical Engineering.
Thesis Topic: "Optimization based pump motor speed control of central chiller system".
Thesis advisors: 1-Prof. Dr. Ragi Ali Refaat.
2-Prof. Dr. Ayman Sami Abdel-khalik.
3- Prof. Dr. Mohammed El Helw.
College: Faculty of engineering.
University: Alexandria University.
- **Degree:** Master of Science in Electrical and Control Engineering.
Thesis Title: "Realization of Energy Management for HVAC System Based on both Zones and Main AHU Controller".
Thesis advisors: 1-Prof. Dr. Hamdy Ahmed Ashour.
2-Prof. Dr. Roshdy Mohamed Hammouda.
College: College of Engineering and Technology.
University: Arab Academy for Science, Technology and Maritime Transport (AASTMT).
Graduation year: December 2014
- **Degree:** bachelor's degree in Mechatronics engineering.
Grade: very good (5th)
Institute: Alexandria Higher Institute of Engineering and Technology.
Graduation year: June 2004
Graduation project: Automatic air conditioning system for educational building "case study".
Project grade: Excellent.

Academic Experience

- **From 1/4/2007 till now** Alexandria Higher Institute of Engineering and Technology (AIET)
 - i) Assistant Lecturer teaching the following courses:
 - (1) **Mathematics I** for preparatory year (course contains: **Differentiation**, **different types of integration methods**, **Beta and Gamma function** and **first order differential equations**).

Mohamed Ahmed Abd-Elmoula Al-Sadani

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- (2) **Mathematics II** for preparatory year (course contains: **Partial fraction, Binomial theorem, Analytical Geometry** containing: Lines, circle and parabola, **matrix** and **solving system of linear equation**).
 - (3) **Engineering drawing** for preparatory year (course contains: **Projection, Missing view, Section view, Isometric view, and AutoCAD**).
 - (4) **Mathematics III** for first year (course contains: **Linear Second order differential equation** using: 1) **D-operator and Undetermined coefficient**, 2) **method of variation of parameters** and 3) **Euler homogenous equation, Gamma function, Laplace transform** containing: **Laplace transform, Inverse Laplace transform and application on Laplace transform and Fourier series**).
 - (5) **Mathematics IV** for first year (course contains: **Complex analysis, Complex differentiation and Complex integration, Vector Analysis, double integral, Green theorem, Surface integral**).
 - (6) **Special function and integral transform** for second year (course contains: **Beta and Gamma functions, Series solution of second order DE** using 1) **Taylor method**, 2) **Power series method** and 3) **Frobenius method, Fourier series, Fourier transform, Z-transform and special functions** using 1) **Legendre polynomials**, 2) **Bessel function**).
 - (7) **Fluid Mechanics** for third year mechatronics and second year industrial (course contains: **fluid statics, fluid kinematics, fluid dynamics, hydraulic machines definition and description of pumps**).
 - (8) **Design of Microprocessor-Based Mechanical System** for fourth year mechatronic department (course contains: Design of control system using relay logic to design power circuit and control circuit, define the basics of PLC hardware, basics of PLC software and programming zelio Schneider and S7-200 Siemens).
 - ii) **The manger of laborites department** since 2011 and responsible for the maintenance and development of 34 laborites for all of the institute departments (Electronics and communications, Mechatronics and industrial).
 - iii) **Responsible for the operating and teaching** the laborites of:
 - 1. Pneumatic lab. (Sequential solenoid valves-proximity sensors-acting cylinders- ...etc)
 - 2. Heat transfer lab. (Conduction- Forced Convection and temperature sensors interface)
 - 3. Fluid mechanics lab. (Pumps in series/parallel connection – Eddy/friction losses measurements...etc)
 - 4. Manufacturing process lab. (Gantry robot – Siemens PLC programming)
 - 5. CNC lab. (Emco Lathe machine with changeable Sinumirk840 and Fanuc21 interface)
 - 6. Air condition lab. (heat exchangers – double evaporator handling unit ...)
 - 7. Automotive lab. (Gear boxes – transmission – Engine kit.....etc)Besides teaching some courses.
 - iv) **ICDL tester** at the Continuing Education and Training Department (confirmed by UNESCO)
 - v) **Autodesk AutoCAD and Inventor Teacher and Proctor** at the Continuing Education and Training Department (confirmed by Certiport)
 - vi) **Graduation projects supervised:**
 - (1) Design & implementation of an electronic control unit (ECU) in a gasoline engine, 2007-2008 with Dr. Walid Abd El-Ghaffar.
 - (2) Design & construction of thermoelectric portable ice box using peltier material, 2008-2009 with Prof. Mohamed Teamah and A.Prof. Dr. Shafik El-Bahnasy.
 - (3) Vehicle alarm system, 2008-2009 with Dr. Walid Abd El-Ghaffar.
 - **From 1/5/2011 till now** **New horizon Training center**
 - 1. Part-time Instructor for AutoCAD (2D & 3D).
 - 2. Part-time Instructor for Autodesk Inventor.
 - **From 1/6/2009 till now** **Alfa Tech Training center**
 - 1. Part-time Instructor for AutoCAD (2D & 3D).
 - 2. Part-time Instructor for MatLAB.
 - 3. Part-time Instructor for Autodesk Inventor.
 - 4. Part-time Instructor for AVR Microcontroller using Arduino.
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Mohamed Ahmed Abd-Elmoula Al-Sadani

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Address: 6 oday ebn zaid, gleem, Alexandria, Egypt

5. Graduation projects designed and supervised:

- 3D printer.
- Solar tracking.
- Robot Arm based on production line.
- Dancing fountain.

- From 1/8/2007 to 1/11/2007 and From 15/4/2009 to 15/5/2009 EAAC Training center
1. Part-time Instructor for AutoCAD (2D & 3D).

Practical Experience

- From 1/12/2005 to 1/12/2006 Sigma for supplies
Maintenance of the Marine equipment (Suzuki & Johnson) engines and reverse engineering design of the power back circuit.
- From 1/12/2004 to 31/5/2005 Nile company for Roads & Bridges
Responsible for electrical maintenance & operation of asphalt mixers (Barbargreen mixers)
- From 1/7/2003 to 31/7/2003 Abu Keer for fertilizer
Participated in the training program concerning the electrical control room.
- From 1/8/2002 to 30/9/2002 Sigma for supplies
Participated in the training program concerning the maintenance of the Marine equipment.

Languages

	Listening	Reading	Writing	Speaking	Notes
Arabic	Fluent	Fluent	Fluent	Fluent	Native
English	V. Good (5.5)	Fluent (6.5)	V. Good (5.5)	Fluent (7)	IELTS overall score (6 out of 9)

Computer skills

- International Computer Driving License (ICDL).
- AutoCAD (2000-2014) (grade excellent in AutoCAD 2D and 3D) (Certified User from Autodesk).
- V. Good in using Autodesk Inventor suit 2008-2014 and prepared course content for teaching it.
- Good in using Matlab (M-file, Simulink and some of the tool boxes).
- V. Good in using Arduino kits based AVR microcontrollers and prepared course content for teaching it.
- Good in using G-code language (used in CNC machine) in the Sinumirk840 and Fanuc21 interface and trained on EMCO Concept Turn 155.
- Good in using Microcontrollers (ATMEGA16) in different control designs.
- Good in using Proteus and Code Vision AVR microcontroller software.
- Good in PASCAL language.

In Progress

- Working to Obtain PHD degree in Electrical Engineering from Alexandria University.
- Self-learning of COMSOL, ANSYS.
- Self-learning of Autodesk REVIT.



Alexandria Higher Institute of Engineering Technology (AIET)

CURRICULUM VITAE

• Personal Information

- Nationality: Egyptian
- Religion: Muslim
- Mob: 01280951808
- Email: walaa.abouhusein@aiet.edu.eg

• Current Occupation

Engineer at Mechatronics department in AIET

• Education and Academic Degrees

1. M. Sc. **Thesis title:** Five-phase Three-level Inverter Motor System Analysis and Performance
(2008) **Specialization:** Power Electronics
Institute: Faculty of engineering
2. B. Sc. **Specialization:** Electrical Power and Machines Engineering
(2004) **Institute:** Faculty of engineering

• Language & Computer Skills

- English: Excellent
- Computer skill: Excellent

• Teaching Topics

Undergraduate courses as Assistant teacher
Power Electronics
Energy resources and its applications
Electric machines and transformers
Electromechanical energy conversion I
Electromechanical energy conversion II
Mechanics I
Mechanics II

- **Recent Publications**

	<i>Published Papers in International Journals & Conferences</i> <i>Top three published papers (recently)</i>
1-	Walaa M. Abou-Hussein, Sherif M. Dabour, Mostafa S. Hamad, and Essam M. Rashad. "Model Predictive Control for Three-Phase Split-Source Inverter-Based Virtual Synchronous Generator." In <i>2021 22nd International Middle East Power Systems Conference (MEPCON)</i> , pp. 648-653. IEEE, 2021.
2-	Walaa M. Abou-Hussein, Sherif M. Dabour, Mostafa S. Hamad, and Essam M. Rashad. "Model predictive control based virtual synchronous generator for parallel-connected three-phase split-source converters in islanded AC microgrids." <i>Energy Reports</i> 9 (2023): 1696-1706.



Alexandria Higher Institute of Engineering Technology (AIET)

CURRICULUM VITAE

Teaching assistant: Hoda Mohamed Farid

Department: Electrical Engineering

• Personal Information

- Date of Birth: 20 August 1998
- Nationality: **Egyptian**
- Religion: Muslim
- Work Tel.: **+2-03** Mob: 01016091116
- Email: hodafarid98@gmail.com

• Current Occupation

Teaching assistant in Mechatronics department

• Previous Occupations

Teaching assistant in Mechatronics department

• Scientific Position

1. I Teaching assistant Mechatronics department in AIET
(2022-Now)

• Education and Academic Degrees

1. B. Sc. (2021)	Overall rate of appreciation: Very good with honors Specialization: Electrical Engineering Department (Electronics and Communication Section) Institute: Faculty of Engineering, Alexandria University
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• Language & Computer Skills

- English: Excellent
- Computer skill: Excellent

• Teaching and Research Topics

Undergraduate courses as Teaching assistant	Date
Electromagnetic wave I	First term (2022/2023 - 2023/2024)
Digital integrated circuit	First term (2022/2023)
Electric circuit I	First term (2023/2024)
Signal processing	First term (2023/2024)
Analog communication	First term (2022/2023 - 2023/2024)
Communication theory and system	First term (2022/2023 - 2023/2024)
Communication system	First term (2022/2023 - 2023/2024)
Integrated circuit	Second term (2022/2023- 2023/2024)
Logic design	Second term (2022/2023 - 2023/2024)
Power electronics	Second term (2022/2023 - 2023/2024)
Electrical power engineering	Second term (2022/2023 - 2023/2024)
Integrated circuit devices	Second term (2023/2024)
Microprocessor interfacing	Second term (2022/2023)
physics II	Second term (2022/2023)

• Recent Publications

	<i>Published Papers in International Journals & Conferences Top three published papers (recently)</i>
1-	
2-	
3-	



Alexandria Higher Institute of Engineering Technology (AIET)

CURRICULUM VITAE

Lecturer: Karoline Kamil Eshak

Department: Mechatronics

• Personal Information

- Date of Birth: 12 /2 /1994
- Nationality: **Egyptian**
- Religion: Christian
- Work Tel.: +2-035866747 Mob: 01004203088
- Email: caroline.kamil@aiet.edu.eg

• Current Occupation

Teacher assistant in Mechatronics department

• Previous Occupations

Instructor in Mechatronics department

• Scientific Position

- | | |
|-------------------------------------|---------------------------------|
| 1. Assistant lecturer
(2023-Now) | Mechatronics department in AIET |
| 2. Instructor
(2017-2022) | Mechatronics department in AIET |

• Education and Academic Degrees

1. M. Sc. **Thesis title:** Hybrid Algorithms for Autonomous Robot Path Planning
(2023) **Specialization:** Mechanical Engineering
Institute: Faculty of engineering, Benha University
2. B. Sc. **Overall rate of appreciation:** 3.87
(2016) **Specialization:** Mechatronics Engineering
Institute: Alexandria Higher Institute Of Engineering and Technology

• Language & Computer Skills

- English: Excellent
- Computer skill: Excellent

• **Teaching and Research Topics**

Undergraduate courses as Assistant lecturer	Date
Special function and integrated circuits	
Mechanics I	
Mechanics II	
Mathematics IV	
Engineering vibration	
Lab Power Electronics	

• **Recent Publications**

	<p><i>Published Papers in International Journals & Conferences</i></p> <p><i>Top three published papers (recently)</i></p>
1-	Mobile Robot Obstacle Avoidance Based on Neural Network with a Standardization Technique

Mayar Mostafa kamel

Electro-Mechanical Engineer

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🌐 <https://www.linkedin.com/in/mayarmostafa-5a79a0214>

Enthusiastic and self-motivated electromechanical engineer with 2+ years of experience. Eager to join academic field and bring my skill in frontend development, I am able to work under various condition and capable to implementing my educational knowledge with quick learning and leadership personality I have. my experience combines between the academic and industrial field enabled me to enjoy challenges.

Experience

Teaching Assistant

At Alexandria Higher Institute of Engineering and Technology (AIET)

“Mechatronics Department” February 2024 - Present

At Faculty of Engineering, Alexandria University

“Mechanical Department” October 2022 -present

- delivering a range of teaching and assessment activities, including tutorials, seminars and lectures .
- Participating in the supervision of practical work, advising on skills, methods and techniques to assist transfer of knowledge.
- Contributing to the on-going development and design of the curriculum, in a manner that supports a research led and scholarly approach to student learning

Electromechanical Technical office engineer

July 2022-August2023

at El Ghoniemy for constructions

- Worked together with the others team to coordinate the outline of the projects
- Preparing shop drawing, BBS and coordination drawings based on project's design drawings in accurate with quality standard.
- Studying and preparing requests for information (RFIs) for all missing, unclear, conflicting or other technical matters that may arise during the project
- Prepare quantity surveying “BOQ “
- calculating the loads and cables , circuit brakers , generators and transformers needed

Education

Master degree

- Pre-Master from Alexandria University in mechanical department

Bachelor degree

- from Alexandria University (2022) in Electromechanical
- accumulative GPA: 3.75 ranked 9 among the group (Excellent with Honors)

High School

Skills

- ♦ Microsoft Office
- ♦ SolidWorks
- ♦ ANSYS and CFD
- ♦ Matlab , REVIT and STEP7 Simatic Manager

Extra Personal Information

- ♦ Birthday 21/3/1999
- ♦ Gender Female
- ♦ Nationality: Egyptian

Training and Internship

Hybrid student development program in TITAN

[August 2021]

I understood the manufacturing process and the associated hazards and risks, established risk assessment then the safety actions needed also I learnt to document and examine the financial plan of the company

Arab Contractors, summer training and technical development

[June 2021]

I examined the heavy machine understood the hydraulic circuit of each equipment then the control unit, reviewed the supply process, surveyed the structure planning

PETRO-GROUP, The authorized agent for MITSUBISHI CAR MAINTENANCE

[July 2020]

I inspected and diagnosed the vehicle, performed the periodic maintenance check the oil and water circuit then attained disassemble and assemble any part of vehicle

Alexandria shipyard company

[August 2019]

The internship developed my knowledge of shipbuilding and analysed the electric distribution loads and sources , then the control unit of the ship and also the repair process

New-Abukir Electric Power plant

[July 2019]

I had the chance to examine the turbine, boiler, heat exchanger, pump and fuel supply lines then define each part of the station and system. also was taught about the troubleshooting, maintenance and shutdown procedure.

Extra Activities

Student activities at the University at team called “AUMotor sport” as a Member at power train team :

[2019 - 2021]

It developed technical skills in 3D simulation, force analysis coding and communicate with other teams to have best performance of the vehicle.

Civil Works and Society Organizations

“I-debate” project - 2017 as a HR member

I worked on HRIS, advising, administrative and handle the questions and complain to improve problem solving and analytical thinking skills

“Media in motion” - 2016 Coach and best Coach member

I improved my emotion intelligence, active listening, and motivational skills. I was ready to coach and guide other member to find their point of weakness and strength and another coach tasks

“Model of European Union -2015” “Entapreneur project 2015”

I was member in both of them due to the academic content provided. I learnt the historical information of Europe; reasons of success and failure happen to states and companies in Europe. On the other hand, I leant to start up my own business and moderate it. I had overcome my fear of public speaking, and I improved my communication skills, critical skills and discussion with evidence.

Courses and Diploma

• Health and safety course

From “American Chamber of commerce In Egypt” August 2019, I understood the safety measures and safety procedures how you can help to uphold them -Understand the importance, significance of workplace risk assessments, the work-related hazards and risks.

• Business Technique Course

From “American Chamber of commerce In Egypt” December 2020/21, I understood the SMART goal setting, SOWT analysis, business process modeling and teamwork

• Human Resources Essentials

From “American Chamber of commerce In Egypt” August 2021, the course aims to understanding the recruiting process, explain the HR responsibilities include performance management, rewards and remuneration, rewards and remuneration.

• Mechanical diploma From “Oil And Gas Skills Alexandria Branch” June2022- july2022

Diploma includes five courses: Pumps, Gas turbine ,compressors , vibration and Mechanical Alignment. Diploma aim to: 1)Explain the pumps and compressors types, Maintenance, selection and trouble shooting. 2) Review the vibration theory, measuring equipment ,the proper technical solution and Performing a pre-alignment. 3)Understand the types of Gas turbine , Components, , Auxiliary systems and operations , Auxiliary systems and operations

References Available upon request.

Noura Emad

Moharm Bek, Alexandria, Egypt.

(+2 0 155 361 9461)

Email: nouraemadabdelwahed@gmail.com / [LINKEDIN](#)

Electromechanical Engineer

EXPERIENCE

FROM May 2024 TO NOW

Electrical Site Engineer & Technical Office at ALAMIN ISLAND 1&2&3, PGESCO.

- Developed systems using ACOUX across Electrical, Mechanical, and Civil Departments.
- Created reusable templates and dashboards using Power BI to streamline financial updates and project reporting.
- Designed and implemented building lighting systems, including shop drawings and technical designs.
- Managed document flow, maintaining confidentiality and ensuring compliance with agreements.
- Prepared ad-hoc project reports and updated financial positions for stakeholders.

FROM AUGUST 2023 TO NOW

Electrical Site Engineer at Abu Zekery Project, PGESCO.

- Supervised the installation of high mast lighting systems (25M) and panel installations from transformer rooms to high masts.
- Conducted daily, interim, and final inspections of electrical systems to ensure compliance with project standards.
- Audited contractor financial and time reports, resolving discrepancies and ensuring project accountability.
- Prepared comprehensive monthly progress reports to update project Owners

FROM SEPTEMBER 2022 TO AUGUST 2023

Electrical Site and Document Control Engineer at Haya Karema Project, PGESCO.

- Oversaw the replacement and renewal of low-voltage electricity networks in Alexandria.
- Reviewed and updated engineering drawings using GIS and AutoCAD.
- Managed and maintained document control systems for multiple projects, ensuring accurate filing and compliance.
- Developed document numbering systems and managed interdisciplinary checks and supplier data.
- Created and maintained distribution matrices for vendor document management.
- Gathers, electronically logs, and distributes various engineering documents. Maintains established files of drawings and correspondence. Logs and routes interdisciplinary checks and supplier data.

EDUCATION

2022

Bachelor of Electromechanical Engineering, Faculty of Engineering, Alexandria

University With GPA 2.69 (Very Good) and Graduation Project in Hybrid desalination and power generation utilizing renewable energy (A+).

- It was studying how to provide basic services in the remote areas which are away from the utility grid. In these areas are mainly in need of electricity and drinkable water.
- Providing the renewable energies: the solar and wind energy to get a sufficient power to be used in the machines and large projects in these areas. Weather DC or AC loads. Also, to find pure water in these areas is difficult.
- So, adding a desalination unit to desalinate saline water to get human usable water for employees is one of the priorities to make any project in those areas.

- Also, this project was applied and tested as a prototype that contains the main resources of power generation [vertical axis wind turbine & photovoltaic system] and solar still unit. In addition, there are many modifications to increase the productivity, such as the cooling system for the PV panels, heating system with control circuit to increase the water productivity and other methods and recommendations were discussed throughout the timeline of the project.

Starting at September 2024

Master's degree in Biomedical Engineering, Medical Research Institute

At first Term I am studying signal ,Bioimaging and Introduce to Biomedical Engineering.

My Master's thesis will be about Tissue Engineering using Stem cells .

COURSES

- DIALUX
- AutoCAD.
- ACOUX.
- GIS.
- MC Office(POWER BI).
- Revit (NOW).

ACADEMIC COURSES. Language Skills

- | | |
|--------------|------------------------------|
| *Matlab | *Arabic |
| *Ansys | *English(Upper Intermediate) |
| * Proteus. | *French(Basic) |
| * Solidwork. | |
| * HAP. | |
| *Arduino | |

TRAINING

FROM May2021TO Sept2022

Electromechanical Engineer at AMER Group.

- Find a solution to every technical problem Critical thinking to reach the optimal solution
- Early detection and repair of electrical problems Basic knowledge of electrical circuits Programming makes it easier for me to solve many problems

FROM May2021TO Sept2022

Electromechanical Engineer at ABU QEAR.

- The country's need for Umrah is estimated through statistical information about the inhabited areas of cities and the number of residents.
- The optional location of these stations is chosen according to their proximity to fossil fuel sources, the environmental factor, and the wind direction.

FROM AUGUST 2021 TO AUGUST 2022

Public Relation Specialist, UCCD Center .

- Formulating PR plans and strategies.
- Enhancing the company's voice and presence through online and offline channels
- Managing media relations and requests



Alexandria Higher Institute of Engineering Technology (AIET)

CURRICULUM VITAE

Lecturer: OMAR ABDULAZIZ KESHK

Department: Mechatronics Engineering

• Personal Information

- Date of Birth: 23, 10, 1987
- Nationality: **Egyptian**
- Religion: Muslim
- Work Tel.: **+2-03** Mob:01007596176
- Email: omar.keshk@aiet.edu.eg

• Current Occupation

lecturer in Mechatronics department

• Previous Occupations

Assistant lecturer in Mechatronics department

• Scientific Position

- | | |
|---------------------------------------|---------------------------------|
| 1. lecturer
(2016-Now) | Mechatronics department in AIET |
| 2. Assistant lecturer
(2010-2016) | Mechatronics department in AIET |
| 3. Teaching assistant
(2009- 2016) | Mechatronics department in AIET |

• Education and Academic Degrees

1. Ph. D. (2020) **Thesis title:** Performance enhancement of journal bearings by optimization of surface texturing
Specialization: Applied Mechanics
Institute: Faculty of engineering, Alexandria university
2. M. Sc. (2015) **Thesis title:** MONITORING OF DEEP GROOVE BALL BEARING DEFECTS USING THE ACOUSTIC EMISSION TECHNOLOGY
Specialization: Applied Mechanics
Institute: Faculty of engineering, Arab Academy for science and technology

3. B. Sc. **Overall rate of appreciation:** Excellent, (GPA 3.63/4)
 (2009) **Specialization:** Mechatronics
Institute: Alexandria Higher Institute of Engineering and Technology

• Language & Computer Skills

- English: Excellent
- Computer skill: Excellent

• Teaching and Research Topics

Undergraduate courses as Assistant lecturer	Date

• Recent Publications

<i>Published Papers in International Journals & Conferences</i> <i>Top three published papers (recently)</i>	
1-	MONITORING OF DEEP GROOVE BALL BEARING DEFECTS USING THE ACOUSTIC EMISSION TECHNOLOGY International Journal of Sciences: Basic and Applied Research (IJSBAR) (2016) Volume 29, No 2, pp 237-247.
2-	MONITORING OF DEEP GROOVE BALL BEARING DEFECTS USING THE ACOUSTIC EMISSION TECHNOLOGY Czech Society for Nondestructive Testing 32nd European Conference on Acoustic Emission Testing, Prague, Czech Republic, September 07-09, 2016.
3-	



Alexandria Higher Institute of Engineering Technology (AIET)

CURRICULUM VITAE

Teaching assistant: Tasneem Mohamed Ahmed Gomaa

Department: Mechatronics

• Personal Information

- Date of Birth: 30 August 1992
- Nationality: **Egyptian**
- Religion: Muslim
- Work Tel.: **+2-03** Mob: 01274225669
- Email: engtasneem539@gmail.com

• Current Occupation

Teaching assistant in Mechatronics department

• Previous Occupations

Teaching assistant in Mechatronics department

• Scientific Position

1. I Teaching assistant Mechatronics department in AIET
(2022-Now)
2. Teaching assistant Faculty of engineering
(2015- 2016)

• Education and Academic Degrees

1. M. Sc. (2020)	Thesis title: Position control of Arm Manipulator Within Fractional Order PID Utilizing Particle Swarm Optimization Algorithm Specialization: Electrical Department (Power) Institute: Faculty of engineering
2. B. Sc. (2014)	Overall rate of appreciation: Excellent Specialization: Mechatronics department Institute: AIET

• Language & Computer Skills

- English: Excellent
- Computer skill: Excellent

• Teaching and Research Topics

Undergraduate courses as Teaching assistant	Date
Electromagnetic wave I	First term (2022/2023 - 2023/2024)
Measuring instruments	First term (2022/2023)
Electric circuit I	First term (2022/2023 - 2023/2024)
Electronics circuit	First term (2022/2023 - 2023/2024)
Control systems theory and design	First term (2022/2023)
Integrated circuit	Second term (2022/2023)
Design of microprocessor	Second term (2022/2023 - 2023/2024)
Power electronics	Second term (2022/2023)
Electrical power engineering	Second term (2022/2023 - 2023/2024)
Microprocessor interfacing	Second term (2022/2023 - 2023/2024)
Basic electronics	Second term (2022/2023)
Electric circuit II	Second term (2022/2023 - 2023/2024)

• Recent Publications

<i>Published Papers in International Journals & Conferences</i> <i>Top three published papers (recently)</i>	
1-	Tasneem M. Gomaa, Amr Nasr, Ayman Samy, and Ragy Ali Refaat. "Position Control of Arm Manipulator Within Fractional Order PID Utilizing Particle Swarm Optimization Algorithm," <i>IEEE Conference on Power Electronics and Renewable Energy (CPERE'2019)</i> , Aswan, Egypt, 2019.



Alexandria Higher Institute of Engineering Technology (AIET)

CURRICULUM VITAE

Assistant Lecturer: Tassneem Mohamed Reda Hafez Elrouby

Department: Mechatronics

• Personal Information

- Date of Birth: 20-10-1992
- Nationality: **Egyptian**
- Religion: Muslim
- Work Tel.: **+2-03 4254370** Mob: 01272211755
- Email: tassneem.elrouby@gmail.com

• Current Occupation

Assistant lecturer in Mechatronics department

• Previous Occupations

Teaching Assistant in Mechatronics department

• Scientific Position

- | | |
|---|--|
| 1. Assistant lecturer
(2020-2024) | Mechatronics department in AIET |
| 2. Teaching assistant
(2016) | Mechatronics department in AIET |

• Education and Academic Degrees

1. Ph. D. In progress
2. M. Sc. **Thesis title:** Speed control of permanent magnet synchronous motor using particle swarm optimization and cuttlefish camouflaging optimization
Specialization: electrical power and machines
Institute: Faculty of engineering
3. B. Sc. **Overall rate of appreciation:** Excellent
Specialization: Mechatronics
Institute: Alexandria higher institute of engineering and technology

• Language & Computer Skills

- English: Excellent
- Computer skill: Excellent

• Teaching and Research Topics

Undergraduate courses as Assistant lecturer	Date
Mechanics 2 - Tutorial	2016
Microprocessor interfacing lab & logic design lab & Mechanics 2 lab & Electric circuit 2 lab & Fluid mechanics lab & Electric energy sources lab & refrigeration and air conditioning	2020 second term
Control system theory and design lab & Modern physics lab and tutorial & Mathematics 3	2021 first term
Mathematics 4 & physics 2 lab & refrigeration and air conditioning lab	2021 second term
Mathematics 3 & Mechanics of machine	2022 first term
Mathematics 4 & Automotive engineering, refrigeration and air conditioning	2022 second term
Mechanics of machine & Mathematics 3 & electric circuit lab 1 & modern physics lab	2023 first term
Automotive engineering, refrigeration and air conditioning	2023 second term
Mechanics of machine & electric circuit lab 1 & mechanics 1 lab	2024 first term
Automotive engineering, refrigeration and air conditioning	2024 second term

• Recent Publications

	<i>Published Papers in International Journals & Conferences published papers (recently)</i>
1-	T. M. Reda, K. H. Youssef, I. F. Elarabawy and T. H. Abdelhamid, "Comparison Between Optimization of PI Parameters for Speed Controller of PMSM by Using Particle Swarm and Cuttlefish Optimization," <i>2018 Twentieth International Middle East Power Systems Conference (MEPCON)</i> , Cairo, Egypt, 2018, pp. 986-991, doi: 10.1109/MEPCON.2018.8635290.

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PROFILE

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I am a Mechatronics Engineer with strong analytical and problem-solving skills, as well as excellent communication and teamwork abilities. I am proactive and creative, and I thrive in collaborative environments. Passionate about innovation and continuous learning, I am dedicated to effectively applying my knowledge while contributing to academic and professional excellence.

SKILLS

LANGUAGE SKILLS

- Excellent commands in Arabic [Native]
- English - Intermediate - B2
- awarded a diploma in automation at Egycet (classic control, Plc1, Plc Advanced, SCADA, HMI) at the end of 2021

COMPUTER SKILLS

- proficient in MS office & AutoCAD
- intermediate in front end developer HTML, CSS , JavaScript problem solving
- intermediate in MATLAB

EXPERIENCE

Demonstrator

Alexandria higher institute of engineering and technology
9/2024 until now

Marketing and Maintenance Engineer

Elkhrishy-Petroleum services
2/2024 - 8/2024

- Tendering: Prepare and submit maintenance bids.
- Support: Manage maintenance and system performance.
- Client Relations: Offer technical assistance and build partnerships.

THIRD SITE ELECTRICAL ENGINEER

Petrojet • Alexandria, Al
07/2023 - 12/2023

- Follow up the work and supervise the implementation processes
- Supervising the work completed according to agreed upon plans.
- Sending reports to executive supervisors on completed work and amendments, if any.

MECHATRONICS ENGINEERING TRAINEE

- Alexandria electricity distribution company from 5/9/2020 to 24/9/2020
- Alexandria water company from 24/4/2022 to 6/10/2022
- Delta elevator company from 24/9/2023 to 6/10/2023
- robotic course in RTE academy

EDUCATION

BACHELOR OF SCIENCE IN MECHATRONICS ENGINEERING

Alexandria higher institute of engineering and technology

2019 - 2023

Grade : Excellent (GPA 3,6)

Graduation project : smart robot vehicle with arm
Grade : Excellent