

ARWA ABOUGHARIB

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EDUCATION

2018- July 2020 **Master of Science in Engineering Systems Management**

American University of Sharjah (AUS), Sharjah, UAE

CGPA: 3.93/4

Thesis Title: Design of a Theoretical Framework for a Real-Time Fire Evacuation Guidance System

2014- 2018 **Bachelor of Science in Mechanical Engineering**

Minor in Applied Physics

American University of Sharjah (AUS), Sharjah, UAE

GPA: 3.96/4 (Summa Cum Laude)

STANDARDIZED EXAMS & LICENCES

2019 SAP Certified Application Associate - Business Foundation & Integration with SAP ERP 6.07

Score: 91%

2018 Fundamentals of Engineering (FE)- Mechanical

2017 Graduate Record Examination (GRE)

Verbal, Quantitative, Analytical Scores: 76,79,60th Percentiles

SCHOLARSHIPS, AWARDS & HONOR SOCIETIES

- Graduate Teaching Assistant's full scholarship, 2018- 2020
- First female initiate, Pi Tau Sigma (International Honor Society for Mechanical Engineers) Chapter in AUS, 2017
- Tau Beta Pi (Engineering Honor Society)
- University's Merit Scholarship, 2014-2018

- Dean of Engineering's List of Distinguished Students for 6 semesters, undergraduate
- Chancellor's List of Distinguished Students, 2016-2017, undergraduate
- Capstone project team won:
 - First place, The International Symposium on Mechatronics and Its Applications (ISMA'18) Student Poster Competition, 2018
 - First place in Mechanical Engineering Department, Second place in all Engineering Departments, The First Annual Engineering Design & Innovation Competition & Exposition (EDICE), 2018

WORK EXPERIENCE

Sept'18- May'20

American University of Sharjah

Graduate Teaching & Research Assistant, Department of Industrial Engineering

- Assisting faculty in academic research and preparation of journal articles
- Teaching, grading student papers & proctoring exams

Jun-Aug 2008- 2016

Rahima Al-Kharusi & Mona Amer Lawyers & Legal Consultants, Muscat, Sultanate of Oman

Administrator, Translator and Arbitration Assistant

- Mastered essential administration skills e.g. filing, planning, time-management and customer relations.
- Gained a five-year professional experience in legal translation (English -Arabic)
- Providing instant interpretation for monolingual witnesses and clients.
- Involved in preparing instant minutes of meeting as a secretary of the Arbitration Panel
- Proofread and translated technical reports in civil and chemical engineering fields

July-Aug 2017

Golden Triangle Engineering Consultancy, Muscat, Sultanate of Oman

MEP Trainee

- Learned the basic principles of water supply and drainage, central HVAC systems, Reverse Osmosis desalination and automatic fire sprinkler systems
- Prepared letters and document transmittals to clients, contractors and subconsultants

RELEVANT COURSES AND PROJECTS (ENG'G MGMT)

- ESM 535 Introduction to Management Science: Performed a Data Envelopment Analysis for benchmarking UAE International Airports
- ESM 625 Enterprise Resource Planning: SAP® Overview
- ESM 520 Management for Engineers: Introduction to human resource management and organizational behavior
- ESM 570 Project Management
- ESM 575 Advanced Engineering Economics: Performed an economic analysis of Concentrated Solar Power Plants
- ESM 638 Decision Analysis: Refined the startup selection criteria of a local incubator in Sharjah
- ESM 644 Financial Management for Engineers: Performed an analysis of the causes of the COVID-19 stock market crash and of the ensuing economic recession

RELEVANT COURSES AND PROJECTS (MECHANICAL ENG'G)

- MCE 39602 Independent Study in Materials Science: Experimented with the manufacturing of carbon-fiber composites impregnated with different concentrations of graphene and investigated the resulting effect on the electrical response of the composites
- MCE 322 Mechanical Design II: Designed, simulated and 3D-modeled a combined helical-bevel reducer gearbox with all its attachments

- MCE 331 Engineering Measurements: Setup, calibration and application of a triaxial accelerometer using LabVIEW
- MCE 236L: Designed and modeled a centrifugal pump in AutoCAD Inventor
- MCE 226L: Programmed an autonomous, self-parking robot using RobotC language
- MCE/ELE 491 (Multidisciplinary Capstone Project): Design, manufacturing and programming of a caged drone for the inspection of industrial HVAC Ducts

CONFERENCE PROCEEDINGS

A. Borik *et al.*, "Caged Quadrotor Drone for Inspection of Central HVAC Ducts," in *2019 Advances in Science and Engineering Technology International Conferences (ASET)*, 2019, pp. 1-7.

"Enhancing the Self-Sensing Capability of Carbon Fiber Reinforced Polymer" in the *Eleventh International Conference on Composite Science & Technology (ICCST'11)*, 2017, Sharjah, UAE.

COMPUTER SKILLS

- AutoDesk Products: AutoCAD, Inventor, Mesh Mixer
- MS Suite: Excel, PowerPoint, Word, Access Database, Outlook, Project
- Programming Languages: HTML, C, Matlab, Java
- Engineering Software: EES, LabVIEW, OrCAD Pspice, ANSYS, KISSoft AG
- SAP ERP Modules: FI, SD, MM, PP, WM

ADDITIONAL SKILLS

Soft Skills

- Excellent time-management skills
- Experience with team organization and planning
- Team Leadership
- Excellent delivery of technical presentations

Languages

- Arabic Fluent (Native)
- English Fluent

EXTRACURRICULAR ACTIVITIES

- Pro bono language reviewer of thesis dissertations and journal articles in engineering
- Member of the American Society of Mechanical Engineers (ASME) and the American Society of Civil Engineers (ASCE) student chapters
- Volunteer, peer tutoring
- Volunteer, FUNtastic FZX open day at AUS, Sharjah, for two consecutive years
- Attendee, seminars in material science advancements, Arduino, ANSYS workshops

REFERENCES

Available upon request