ALAA BASHIR

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EDUCATION

42 ABU DHABI, UAE   NOV 2022 - Present

Diploma of Software Development

Relevant Topics:

- Command line interactions
- Advanced C programming
- Elementary algorithms

TECHNICAL UNIVERSITY OF MUNICH (TUM), GERMANY   OCT 2018 - OCT 2021

Master of Computational Mechanics   Passed with distinction **(GPA: 3.6/4.0)**

Master's Thesis Topic: Investigation of the Turbulent Horseshoe Vortex based on LES Data of Flow around a Scoured Bridge Pier

Relevant Coursework:

- Turbulent Flow Modelling
- Advanced Fluid Mechanics
- Computational Fluid Dynamics
- Computational Material Modelling
- Finite Element Method

UNITED ARAB EMIRATES (UAE) UNIVERSITY, UAE   SEP 2011 - DEC 2016

Bachelor's Degree in Mechanical Engineering   Passed with distinction **(GPA: 3.98/4.0)**

Graduation's Project Topic: Designing and Building a Cooling System with Enhanced Heat Transfer Features Based on Novel Ideas Utilizing Superior Heat Transfer Media

Relevant Coursework:

- Thermodynamics
- Computer Aided Designing and Manufacturing
- Fluid Mechanics
- Advanced Mathematics Courses
- Machine Design
- Aircraft Structure, Dynamics, and Stability

PALESTINE HIGH SCHOOL, UAE   High School Certificate with 98.6%

CERTIFICATION(S)

UDACITY NON-DEGREE PROGRAM IN AI PROGRAMMING   DEC 2022 – FEB 2023

Final Project: Building an Image Classification Application

Relevant Topics:

- Introduction to Python for AI
- Linear Algebra and Calculus Essentials
- Neural Networks
- Deep Learning with PyTorch

RELEVANT EXPERIENCE

MAINTENANCE ENGINEER INTERN, SCHLUMBERGER   SEP- DEC 2015

- Introduced to Health, Safety and Environment (HSE) importance, injury prevention and basic H2S Awareness
- Introduced to the used tools in logging while drilling (LWD), measuring while drilling (MWD), surface system, rotary steerable system (RSS) and drilling
- Gained experience in maintaining these tools according to the service level

OTHER EXPERIENCE

AMERICAN SOCIETY OF MECHANICAL ENGINEERING (ASME) CLUB COORDINATOR, UAE UNIVERSITY   FEB - MAY 2016

- Developed and arranged the proposed club's activities program
- Communicated verbally and in writing with events' speakers and participants
- Produced detailed reports for the activities performed with an evaluation

RESEARCH ASSISTANT, UAE UNIVERSITY   FEB - MAY 2015

- Participated in research of "Room Temperature Shapes of Four- Layer Un-Symmetric Cross-Ply Laminates"
- Learnt good modeling and manufacturing skills of laminated composite panel

HOSTEL SUPERVISOR ASSISTANT, UAE UNIVERSITY   SEP - DEC 2014

- Regulated the entry and exit of the students in the hostel
- Organized entertaining and educational events
- Recorded and responded to student concerns

ORGANIZER IN WORLD YOUTH CHESS CHAMPIONSHIPS, UAE   DEC 2013

- Welcomed all guests and directed them to their rooms
- Greeted guests and assisted them in person or via telephone
- Ensured quality service by addressing guests concerns and resolving problems

LANGUAGES

- Arabic: Native
- English: Fluent
- German: Beginner

SKILLS

Familiar with the use of:

- Microsoft office, CATIA, EES, ANSYS FLUENT, MATLAB, Simulink, ParaView
- C++/Python programming languages

PUBLICATION

Al Omari, S., Bashir, A., Al Hammadi, M., Al Hamalawi, F., Elnajjar, E., Ghazal, A. (2017) "Experimental Assessment of a Direct-contact Heat Exchanger Bubbling Hot Water in a Cooler Liquid Gallium Bath", International Communications in Heat and Mass Transfer

ACTIVITIES

- Participated in the 5th UAE Undergraduate Research Competition   MAY 2017
- Conducted workshops such as "CNC Workshop" and "CATIA Workshop"   FEB 2016
- Participated in UAEU-Mubadala Aerospace Student Research Conference   MAY 2015
- Organized and represented the College of Engineering during "School Open Day"   OCT 2013