



MOHAMMED AL RIFAIE

MS in MECHANICAL ENGINEERING

ABOUT

I am an experienced Mechanical Engineer. I have a strong experience in mechanical design and analysis. I Also have an experience in developing and drafting BOQs of various mechanical works.

SOFTWARE SKILLS

Microsoft Office
AutoCAD
SolidWorks
ANSYS APDL
ANSYS Workbench
Abaqus
Matlab

PERSONAL SKILLS

Fast learner
Motivated
Creative spirit
Reliable and professional
Organized
Time management
Team leader

LANGUAGES KNOWN

Arabic: Native
English: Fluent

PERSONAL DETAILS

Birth Date: 19th Oct 1989
Marital Status: Married
Nationality: Iraqi
Address: Mosul/Iraq

CONTACT

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E: mohammed.j@ntu.edu.iq

WORK EXPERIENCE

ASSIST. LECTURER

Northern Technical University Dec 2018 - Present
- Teaching Mechanical Design
- Teaching Design Softwares like SolidWorks, AutoCAD and Ansys
- Structure Design and Analysis

FLEET OFFICER

NGO Norwegian People's Aids (NPA) | Mosul/Iraq | June 2018- Dec 2018
- Organize the fleet purchases in close collaboration with the logistics manager.
- Carry out fleet and driver daily management.
- Schedule and follow up on servicing of vehicles.
- Carry out the adequate installation, use, maintenance and condition of vehicles.

EXTERNAL INSTRUCTOR

University of Mosul | Mosul/Iraq | Nov 2017 - June 2018
- Instructor of Engineering Mechanics
- Instructor of Engineering Drawings

FIELD SERVICE ENGINEER

Caterpillar dealer in Iraq (IRATRAC) | Erbil/Iraq | Dec 2012 - Aug 2014
- Diagnosing and repairing heavy equipment construction machines
- Overhauling of diesel engines
- Reporting, monitoring and follow-up
- Team management and work follow-up

MAINTENANCE ENGINEER

NISSAN Maintenance Center | Erbil/Iraq | Sep 2012 - Dec 2012
- Diagnosing and repairing Nissan's vehicles
- Inspecting and fixing wheel alignment and balancing
- Inspecting and replacing brake system and Axle Assembly

MAINTENANCE ENGINEER

Al-Hokamaa Pharmaceutical Industry | Mosul/Iraq | Aug 2011 - Sep 2012
- Diagnosing and repairing pharmaceutical equipment machines
- Monitoring and follow-up the production lines
- Creating layouts for production lines using AutoCAD

REFERENCE

Ahsan Mian, Ph.D.
MECHANICAL ENGINEERING
Associate Professor
WRIGHT STATE UNIVERSITY, USA
Email: ahsan.mian@wright.edu

Mohammed Saadaldeen
HR Officer
Norwegian People's Aids, Mosul/Iraq
Phone: +9647726175732
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Maad Arif
Team Leader
Iratrac Caterpillar, Erbil/Iraq
Phone: +9647702009296
Email: marif@iratrak.iq

EDUCATION

MSc IN MECHANICAL ENGINEERING

Wright State university | USA | July 2017
GPA 4.0

BACHELOR OF MECHANICAL ENGINEERING

University of Mosul | Mosul/Iraq | July 2011
Grade V-Good

TRAINING

- Modern VRF system: Installation and Operation
- Sustainable Sanitation and Water Management SSWM
- Mechanical Power Design of Pumps: Manual Installation and Software
- Mechanical Design Class
- Mechanical Design and Analysis: SolidWorks

PROJECTS UNDERTAKEN

MSc THESIS

- Resilience and Toughness Behavior Of 3d-Printed Polymer Lattice Structures: Testing and Modeling
Advisor: Dr. Ahasan Mian

MSc Projects

- The Design of Hoist Crane Hook and The Hydraulic Cylinder Rod.
- Design and Analysis of a Small Winch-Hoist.
- Diesel Engine Connecting Rod Analysis.
- Writing a General Element Code to Generate the Elemental Stiffness and Mass Matrices Using Matlab.
- Writing a Matlab Code for a Brick Finite Element Model.
- Formulating and Solving a Time Dependent Structural Problem Using Finite Element Method.

BSc FINAL PROJECT

- Design and construct an instrument to measure the viscosity of liquids
Guide: Dr. Amir S. Dawood

PUBLICATIONS

JOURNALS

- Drop-Weight Impact Behavior of Three-Dimensional Printed Polymer Lattice Structures with Spatially Distributed Vertical Struts. M Al Rifaie, A Mian, P Katiyar, P Majumdar... - Journal of Dynamic Behavior of Materials, 2019
- 2) Compression behavior of three-dimensional printed polymer lattice structures M Al Rifaie, A Mian, R Srinivasan - Proceedings of the Institution of Mechanical Engineers. 2019
- 3) Effect of vertical strut arrangements on compression characteristics of 3D printed polymer lattice structures: experimental and computational study. A Fadeel, A Mian, M Al Rifaie, R Srinivasan - Journal of Materials Engineering and Performance, 2019
- Low-velocity impact behavior of sandwich structures with additively manufactured polymer lattice cores. AJ Turner, M Al Rifaie, A Mian, R Srinivasan - Journal of Materials Engineering and Performance, 2018

CONFERENCE

- Mohammed Al Rifaie, Sagar Sangle, Ahsan Mian, Raghavan Srinivasan "Compression Behavior of 3D Printed Polymer Lattice Structures" at DLL Convention Center - 306, USA, October 2017.