Ammar Hamza

Khartoum, Sudan
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OBJECTIVE

With a master degree in mechanical engineering and 6 years of experience, my goal is to find a position in a leading organization where I can contribute my knowledge and skills to the success and growth of the organization and enhance my experience through continuous learning and teamwork

EDUCATION

Bradley University, IL, USA   GPA:3.9/4.0
Master of Science in Mechanical Engineering   May 2016
University of Khartoum, Khartoum, Sudan
Bachelor of Science in Mechanical Engineering   August 2008

WORKEXPERIENCES

District Manager. Metropcs Authorized Dealer.IL, USA   Oct 2016 – May 2017
- Provided sales consultation to all stores employees and stores managers
- Controlled and managed inventory work
- Completed company sales and promotions training in a timely manner
- Provided training and coaching to new employees

Teaching Assistant. Bradley University.IL, USA   Sep 2014 -Dec 2015
- Assisted students in conducting experiments of thermal and mechanical systems lab
- Collected experimental data utilizing LabVIEW, analyzed and reduced data in Excel

Mechanical Engineer. Al-Ahmadain Co Ltd.Khartoum   Dec 2010 - Jan 2014
- Prepared cost and time estimates of drilling operations
- Supervised all procurement actions
- Led maintenance operations of drilling machines, air compressors and heavy equipment
- Developed preventive maintenance system (PMS)

Engineer Intern. Sudan National Electricity Corporation.Khartoum   Feb 2010 – May 2010
- Studied operation process of thermal power plant
- Learned maintenance activities of steam turbine and boiler

Project Engineer. Abina for Engineering Works.Khartoum   Sep 2008 –Jul 2009
- Ensured project completion in timely manner
- Performed project schematic design evaluation to ensure compliance with MEP work
- Supervised duct and piping installation of HVAC systems

Academic Research and Projects

Design of Fin Folding Machine
- Created 3D parts models and assemblies
- Fabricated, assembled and aligned components on the machine
- Modified LabView program to control the machine operation

Finite Element Analysis (Abaqus)
- Investigated mechanical phenomena including: static, dynamic, plastic and elastic behavior, coupled thermal-structural stress, transient and quasi heat transfer, modal analysis, Fatigue, spring back and residual stresses
- Utilized Abaqus to perform linear and nonlinear analysis

Computation Fluid Dynamics (Fluent &OpenFOAM)
- Investigated laminar flow and heat transfer in concentric curved duct
- Experimentally verified the numerical results of flow field and showed modified friction factor as only function of dean number
- Utilized Ansys, Fluent and OpenFOAM to conduct flow and heat transfer analysis

SKILLS

- MS Office, AutoCAD, Creo, Fluent, OpenFOAM, Abaqus, HyperMesh,MatLAB, LabVIEW,
- CFD, FEA, Quality management, Six sigma, FMEA, GD&T, and Machining skills

Publications

A. Hamza, J.H. Kennedy, A. Fakheri, PROPER SCALING OF FLOW IN CONCENTRIC HELICAL AND SPIRAL COILS, ASTFE TFEC-IWHT2017- 17554, April 2017, Las Vegas, USA