

Eng. RIHAB KAMAL MIRGHANI HAMZA
College of Engineering
College Requirement Unit
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Education

- *Master of Science in Mechanical Engineering, 1994*
University of Khartoum, SUDAN.
- *Bachelor of Science, Honors in Mechanical Engineering, 1990*
University of Khartoum, SUDAN.

QUALIFICATIONS

- *Twenty years of professional engineering work experience*
- *Broad technical experience in engineering and management;*
- *Strong analytic and excellent problem solving skills;*
- *Experience with preparation of bids & quotations;*
- *Experience with estimation & costing;*
- *Effective communication and interpersonal skills;*
- *Proficient user of technical drawings computer software;*
- *Proficient in programming;*
- *Experience in Tutoring in Math, Thermodynamics, Refrigeration & Air-conditioning;*
- *Experience in Teaching the Freshman year courses*

EXPERIENCE & EMPLOYMENT

UAE UNIVERSITY, COLLEGE OF ENGINEERING, COLLEGE REQUIREMENT UNIT, 10/1999 **- TO DATE**

Instructor: Teaching the College Requirement Courses;

- Freshman Lab.: Which is a course that introduce techniques for engineering measurement, data acquisition, processing, and analysis.

Fundamentals of Engineering: which introduce Engineering Professions to introduce the Freshman Students to the different disciplines of Engineering, engineering approach to problem solving, Engineering concepts and applications using spreadsheet and graphical programming methods, and introduce them to the Fundamentals of the Programming like Visual Basic. Also introducing a technical drawing Software (AutoCAD).

- Introduction to Design & Ethics: Introduction to Engineering Design, Design Process, Design Methods, Conceptual Design, Embodiment Design, Detailed Design, Communicating your Design at all stages of the design process, Design for X, Design Case Studies, introduction to CAD, engineering design project, and engineering profession and ethics.

- Introduction to Programming: Introduction to programming, VB simple and nested conditional statements, fundamentals of programming, logic, algorithms, decision making, programming concepts, variable types, loops, arrays, visual basic programming environment, VB procedures, VB functions, debugging of programs.
- Linear Algebra & Eng. Application (Math 4): Engineering Applications of System of Linear Equations- Eigen values and Eigen vectors- Diagonalization and Complex Analysis

AL REEM VIDAL COMPANY, Mechanical Construction, Abu Dhabi, 3/1998 – 1999

ASSISTANT PROJECT MANAGER:

Responsible for drawing the Mechanical Parts to be constructed by the company using Auto-CAD; preparation of bids & quotations, doing all the office work as well.

UNIVERSITY OF KHARTOUM, SUDAN, 1995 -1997

Teaching Assistant; Part time for tutoring Thermodynamics, refrigeration & Air- conditioning, and Mathematics.

NAS CONTRACING AND COMMERICAL CO. LTD, KARTOUM, SUDAN, 1995 – 1997

Mechanical Engineer:

Responsible for all the Mechanical works:

- Pumps Repair & maintenance,
- Water Supply & Power generation,
- Safety system & controlling system,
- Air conditioning & Evaporative Cooling

KHARTOUM TECHNICAL SERVICES – KHARTOUM, SUDAN, 6/1990 – 5/1993

Air Conditioning Engineer:

Responsible for the air conditioning design and assembly:

- Calculations of the cooling load design,
- Selection of Equipments,
- Supervision of the installation,
- Ducting work,
- Costing

TRAINING COURSES

AL-AIN INTERCONTINENTAL HOTEL, Alain , UAE, 3/1990 (4 Weeks)

Training as Mechanical Engineer in Chillers /Cooler Tower, Air Handling Units and fan Coil Units, Steam Boiler and Sewage Treatment Plant.

KHARTOUM HILTON HOTEL, KHARTOUM, SUDAN, 12/ 1990 (6 Weeks)

Training as Mechanical Engineer in Air- Conditioning & Refrigeration,, Steam Boiler and water Treatment, Kitchen Machines and Laundry Machines.

COMPUTER SKILLS

Proficient user of following software:

- Technical Drawing: Auto-CAD
- Reports generation & Presentation MS Office (ICDL)
- Visual Basic
- MatLab