

Curriculum Vitae

Name: GAFFAR BABIKER OSMAN

Qualification & Standard of Education:

Master of Science in Electrical Engineering in Automation Computers from Polytechnic Train Vuia Timisoara Romaina. Of the state Examination Board of June 1979.

Nationality : Sudanese

Date of Birth: 1952

Social State : Married

Rated Experience (Industrial):

- Working for the National Electricity Corporation At Khartoum- Sudan since Jan. 1980 to Dec. 1986, occupying a post of senior Telecontrol & Telecom Engineer at the Engineering & operation Management responsible for the whole Telecontrol supervisory and Telecom System within the Blue Nile Grid, in addition training the new Engineers & Technicians on the operation, installation, repair & maintenance techniques of the Telecontrol & Telecom system.
- During the above period covered the following:
- Training Courses:
 - A course at Telettra company – Italy on supervisory and control system TIC 1000/03
 - A course at Central Electricity Generating Board “CEGB” at Manchester- United Kingdom on Grid Control Centre & North Western Region with special emphasis on test Facilities Procedure , Fault locations & Troubleshooting , Repair Techniques and Maintenance procedures.

Rated Experience (Teaching):

- Working at the Higher Technical Institute for preparation of trainers in Ziliten- Libya since Feb. 1987 to Aug. 1995 occupying a post of assistant lecturer of Teaching Committee Members in the institute covering teaching of many theoretical & practical aspects that related to: Electronic Circuits,

Electronic measurements, Automatic Control Systems, Analogue computers, Digital Techniques & Microprocessor covered supervision of graduation research projects of the final students of the institute. Appointed Head of the Electronic Engineering Department.

- Working for the Sudan University of Science & Technology since 1998 till now as a teaching member staff covering teaching of many theoretical and practical aspects as: Digital Electronic 1 & 2, Multivariable control systems, control system & microprocessor – covering supervision of graduation projects of the B.Sc & Diploma (3 years) degreed as the following:

1999: 1- Automatic Regulator

2- Temperature control using Microprocessor

2003: 1- Observer Design by Transformation

2- $12 v_{dc} / 220 v_{ac}$ Inverter Implementation

3- Digital Cascade compensator Design

4- Controller Design for phase variable form

5- Up & Down Binary Counter Implementation.

6- Control of Internal Combustion Engine.

2004: 1- 32-bit Microprocessor Interfacing & operation

2- Transducer Applications in Petroleum

3- Starter Control of AC motors.

4- Motors and Controls

2005: 1- Regulation & Control of Industrial plants.

2- Thyristor & power Control circuits study & application

3- Position control system

4- Transducer Fundamentals & applications

5- Microprocessor Hardware & software.

2006: 1- Variable speed control Drive of a 3- phase induction Motor using PLC

2- packing & unpacking Control system.

3- Digital protection of substation's Transformer.

4- supervisory control & Data acquisition system in Electrical Network.

5- Temperature monitoring using Microcontroller

6- Microprocessor control system Industrial Filling Line control.

7- Automatic voltage control in Khartoum North power station.

8- Feeder Automation in Distribution Network.

9- water Desalination Plant study & Modifications of control system.

10- Study of Petroleum Distillation Control system