



CURRICULUM VITAE

Eng. : Awad Khalafalla Hamadnalla Hassan

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Date of Birth : 12th December 1974

Nationality : Sudanese

EDUCATION AND QUALIFICATIONS

2002-2004 : **Msc. In Computer Engineering_**
Sudan University
of Science and Technology

Msc. Project

A theoretical and practical project in system on chip (SoC) using CPLD. The project includes analysis of a digital systems as a case and then an AHDL code was written for each integrated in the system using **MaxPlusII** text editor to create default symbols . Then by using **MaxPlusII** graphical editor the symbols were going to be connected together create equivalent SoC. Finally by using **DNL3** software the design was loaded into the CPLD IC through the serial port of the PC. Then the design was be tested on a testing and gave good results.

*** The project presentation is under progress**

Msc. Subjects

Semester One

- Computer Interface Design .
- Assembly Language .
- AI and Expert Systems .
- Microprocessor –based Systems Design .
- Probability and Stochastic Process.

Semester Two

- Advanced Computer Architecture
- VLSI Circuits .
- Computer Networks.
- Information Storage Systems
- Information Theory.

1999-2002
Sudan University
of Science and Technology

: B. Eng. (Hon.) Computer Engineering_
(Second Class Division One)

Year-5 (Final Year Project)

A theoretical study and analysis project in the internetworking technologies entitled ‘ MPLS over IP ’. The MultiProtocol Label Switching (MPLS) is defined by the Internet Engineering Task Force (IETF) as standard-based approach to combine the benefits of switching technologies with the benefits of IP routing technologies .

The project is focused on the applicability of MPLS in the network layer and studying the MPLS through its architecture components , signaling protocols , label distribution procedures , traffic engineering (TE) and quality of service (QoS) .

Honours Subjects

Semester One

- Computer Architecture I .
- Computer Networks .
- Introduction to AI and Expert Systems .
- Software Engineering .
- Data Base
- Engineering Projects Management .

Semester Two

- Computer Architecture II .
- VLSI Circuits .

- Networks Operating Systems .
- Object-Oriented Programming.
- Information and Encoding Theory.

Year-4 Subjects

Semester One

- Sequential Circuits Design.
- Assembly Language Programming.
- C Language & Systems Programming.
- Electromagnetic Waves Propagation.
- English Language VI .
- Numerical Analysis.

Semester Two

- Modern Communication Systems.
- Data Communication Systems.
- Digital & Microprocessors Systems Design.
- Operating Systems.
- Computer Applications II (Visual Basic) .
- Engineering Economics.

Year-3 Subjects

Semester One

- Digital Electronic Circuits.
- Analog Electronic Circuits.
- Electronic Measurement.
- Computer Applications I (Pascal).
- Mathematics V.
- English Language V.

Semester Two

- Microprocessors Systems.
- Communication Engineering.
- Measurements Systems.
- Automatic Control Theory & Systems.
- Probability & Statistics.

**1995-1998
Sudan University
of Science and Technology**

**: Electronics Engineering Diploma
(Second Class Division Two)**

Diploma Project

A hardware interface project entitled 'Interfacing Audio to PC '. The main objective of this project is to design and implement a customized card to interface Audio signals to the PC, in order to take advantage of using the software available in the PC for storing , Processing, and regeneration of the audio signals. An assembly language program is written to control ADC and DAC to convert the audio signal to digital form , store it into the computer memory and regenerate it back(by converting it to analog form again using DAC).

Diploma Subjects

Year-3 Subjects

- Microelectronics.
- Communication Engineering.
- Electric Measurement II.
- Radio & Television II.
- Electronics II.
- Power Electronics.
- Computer Applications (Basic).
- English Language.
- Arabic Language.

Year-2 Subjects

- Radio & Television I.
- Electronics I.
- Electric Measurement I
- Electric Engineering Principles II.
- Electric Machines.
- Electric Technology.
- Mathematics.
- English Language.
- Arabic Language.

Year-1 Subjects

- Electric Engineering Principles I.
- Electric Systems.
- Mech. Engineering Principles.
- Engineering Technology.
- Engineering Drawing Systems.
- Workshop Practice.
- Mathematics.
- English Language.
- Arabic Language

SHORT COURSES

A short course in computer eng. Microcomputers, Microcontrollers, PLCs, PLDs and SoC in K&H training center in Taiwan.

SKILLS AND INTERESTS

- Computing** : A good Knowledge of Basic, Pascal, C , and 80X86 Assembly and a medium Knowledge of Visual Basic and Java programming languages.
Also I have a good Knowledge of ORCAD And ELECTRONIC WORKBENCH and a medium Knowledge of PSPICE and MATLAB Simulation software.
Beside a good Knowledge of using Microsoft Operating systems such as DOS and WINDOWS (Win9x, WinNT, Win2000, WinXP and WinME).
- Languages** : Fluent English and Arabic written and spoken .
- Sports** : I enjoy playing football regularly.

PRACTICAL EXPERIENCE

- Academic Years :1998 , 1999** : Joined Karrary Academic of Technology as a part-timer technician in the department of Electric Engineering at the faculty of Engineering. I was involved in electronics circuits practical.
- Academic Years : 1999 ,2000
2001 , 2002** :Joined Al Bayan College for Science & Technology as a full-timer technician in the department of Electronic Systems Engineering. My work involved in managing the Electronics Laboratory and teaching a number of practical and simulation subjects (dc electric circuits , digital and analog electronic circuits) .
- Academic Year : 2001** : Joined the International University of Africa as a part-timer teaching assistant in the department of Computer Science at the faculty of Computer Studies. I was involved in digital circuits simulation.

Academic Year : 2002

department

: Joined the International University of Africa
as a part-timer teaching assistant in the

of Mathematics and Computer at the faculty Pure and
Applied Sciences . I was involved in assembly

language programming practical .

Academic Year: 2001-2002

department

:Joined Sudan University of Science and Technology
as a part-timer teaching assistant in the

of Electronics Engineering at the College of
Engineering . I was involved in sequential

circuits

practical and simulation .

Academic Year: 2002 and till now

department

:Joined Sudan University of Science and Technology
as a full-timer teaching assistant in the

of Electronics Engineering at the College of
Engineering . I was involved in sequential

circuits

practical and simulation, and microprocessors

Systems

and assembly language practical .

Academic Year:2002-2004

department.

: Promoted at Al Bayan College for Science &
Technology to a full-timer teaching assistant
in the Electronic Systems Engineering

I was involved in microprocessors Systems and
assembly language practical .

Academic Year:2004 and till now : Promoted at Al Bayan College for Science &
Technology to a full-timer Lecturer in the
department Electronic Systems Engineering.

I was involved in teaching computer engineering
courses (**Microprocessors Systems, Assembly
Language ,and computer Interfacing methods**).

I was involved also in teaching the practical of these
courses.

**Personal Design :
the
and Supervision**

:During my stay in Al-Bayan, I have supervised

students for designing , implementing and testing
a number of electronic projects:

- Two digits BCD counter .
- Digital Watch Simulation .
- Interfacing Traffic Lights to PC .

Other Jobs :

: Also During my stay in Al-Bayan College
I have create a suitable computer engineering
laboratory, that covers the practical of the advanced
computer engineering subjects. Beside that I helped in
developing the syllabus of the Electronic Systems
Engineering department. Nowadays I'm a member
in the committee of developing the syllabus of the
biomedical engineering department in our college
(new department) .

People to Refer to :

- Dr. Osama Abd Alwahab Rais :

Sudan University of Science and Technology
College of Engineering
Head of Electronics Engineering department

- Dr. Abd Alrasul Jabar :

Sudan University of Science and Technology
College of Engineering
Electronics Engineering department

- Dr. Amar Hassan Khames :

Al Bayan College for Science & Technology
Academic Trustship

- Lec. Ibrahim Saeed:

Sudan University of Science and Technology
College of Engineering
Electronics Engineering department

- Lec. Mokhtar Albanna:

Sudan University of Science and Technology
College of Engineering
Electronics Engineering department

- Lec. Luai Farog :

Al Bayan College for Science & Technology
Head of Electronic Systems Engineering
Department