

## Curriculum Vitae of

### Yahia Abdalla Mohamed Hamad

**Date of Birth :** 27 February 1968.  
**Nationality :** Sudanese.  
**Gender :** Male  
**Passport Info.:** B0658726, Khartoum, 28<sup>th</sup> July 2005  
**Current job :** Assistant Professor  
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#### EDUCATION

**1997-2002**

P.h.D. Computer Science.  
Sudan University of Science and Technology. Sudan  
Network Security.

**1995-1996**

M.Eng. in Computer system (First Class Honors)  
University of Limerick, Ireland

#### **Major Subjects:**

- Computer Networks
- Operating Systems
- Computer Systems processors
- Digital Signal Processing
- VLSI (Very Large Scale Integrated circuits) design
- Artificial Intelligence
- Distributed Systems
- Computer Graphics
- Software Engineering
- Digital Communications
- Digital Control
- Hardware Reliability and Testing.

#### **Master Project**

design and Implementation of a General Purpose Authentication and file transfer system. The project included: analysis and understanding of the existing Authentication Systems, Access control policies, and development of a new system. The project Implemented in a

UNIX operating System using C language and the TCP/IP protocol.

**1986 - 1991**

B.Eng. in Computer Science and Automatic Control ( Honors ).  
Department of Electronics and Computer Engineering.  
College of Engineering, Ain Shams University - Egypt

**Final year project:**

The design of a programmable Analogue to Digital and Digital to Analogue card for a PC-Bus. The project included: analysis, hardware design and implementation, development of a software driver, and integration of hardware/software. My project grade was Distinction.

**1983-1986**

Gamal Abdelnasir Secondary School.,

**1980-1983**

Alengelia Preparatory School

**1973-1980**

Khartoum Modern School

**EMPLOYMENT HISTORY**

**Date:** Nov. 1991 - Feb. 1992  
**Job Title:** System programmer  
**Company:** DMS ( Database Management System company) Egypt.  
**Job Description:** System programmer for an IBM-9370 Mainframe, using COBOL

**Date:** Jan. 1992 - Oct 1992  
**Job Title:** Maintenance Engineer  
**Company:** ComputerMan Company - Khartoum.  
**Job Description:** Maintenance of PCs and peripherals.

**Date:** Jan. 1992 - Oct. 1992  
**Job Title:** Teaching Assistance (Part Time),  
**Institution:** ComputerMan College for Computer Studies.  
Computer Engineering Department  
**Job Description:** Subject Taught: Computer Programming, Digital Electronics, Microprocessors

**Date:** July 1992 - Sept. 1994  
**Job Title:** Teaching Assistance  
**Institution:** Sudan University of Science and Technology,  
College of Science, Computer Department  
**Job Description:** Subjects Taught as Teaching assistance  
- Computer programming ( Pascal), Tutorials and laboratories  
- Logic Design and Digital Electronics, Tutorials and laboratories  
- Introduction to Computers (laboratories)

**Date:** Sept. 1994- Sept. 1995  
**Job Title:** Head of computer Department,

Faculty of Science,  
Sudan University of Science and Technology

**Job Description:**

The department had 3 computer labs and 7 classes with about 300 students, the nature of my work was to manage the department, from academic point of view ( time tables, solving problems, arrange staff meeting, supervise laboratories, contact with the dean office, follow the department requests, solve students problems, ... etc.), also management and administration of the computer labs in the department which use Novell Netware Operating System. I also teach Computer programming ( Pascal), Logic Design and Digital Electronics

**Date:**

Feb 1998 - May 1999

**Job Title:**

Head of Electronics Department,  
Faculty of Engineering,  
Sudan University of Science and Technology

**Job Description:**

the department had many labs including Basic electronics, digital electronics, Radio and TV., measurment, communication, microprocessor and computer labs. The department has 5 classes for the Beng. With about 350 students and 3 classes for diploma with about 250 students and 2 classes for higher diploma with about 40 students.

**Date:**

Feb 1999- Nov. 2000

**Job Title:**

Manager and creator of the Computer Center,  
Sudan University of Science and Technology

**Job Description:**

the Computer Center looks after the Information Technology of the unoversity, The center looks after the IT at SUST including the following:

- Maintenance of the computers.
- LAN installation.
- LAN interconnections using Optical Fiber Backbone.
- Internet Connection at SUST using Frame Relay.
- Building software packages to the university
- Homepage design for SUST and any other organizaion.
- Consaltant for many organizations.
- And solve any other Information Techology problem.

**Date:** September 2002 – March 2005  
**Job Title:** Dean of College of Computer Science and Information Technology, Sudan University of Science and Technology

**Job Description:**  
The creation of the new college, it was the upgrading process of the computer department to the new college.  
My job was to build the new college including the academic and administrative responsibility, the college has the following infrastructure and resources: More than 30 academic staff (starting from the professors to the T.A.), More than 20 administrative staff. 5 departments. 9 computer laboratories with more than 300 PCs and Servers, complete administration and accounting (Registrar, accounting, purchase, stock,...), Around 100 postgraduate students, around 900 undergraduate students.

**Date:** September 2006 – Now  
**Job Title:** Manager of the Computer Center, Sudan University of Science and Technology

**Job Description:**  
Please Visit the Web Page of the University [www.sustech.edu](http://www.sustech.edu)

**Date:** July 2007 – Now  
**Job Title:** Director of the Distance Education Center, Sudan University of Science and Technology

**Job Description:**  
Please Visit the Web Page of the University [www.sustech.edu](http://www.sustech.edu)

### **Consultant Engineer**

In addition to my full time employment, I also run my own Engineering Consultancy, since 1992. As a Consultant I have undertaken two major projects as follows:

**Project 1:** **System performance and overtime system**

(for Khartoum state transportation Company).

The system process information's about the company system which include buses, drivers, and cashiers, the system used now and generate the following reports - overtime information's about drivers and cashiers .

- Buses information's, fuel, Kilometers, income,.....etc.

- daily, monthly, and Annual reports about the performance

The system is currently in use by the Khartoum State transportation Company.

**Project 2:** **Sudan General Certificate processing system**

( for Sudan Examination Committee, Ministry of Education)

the system in use now to process the secondary certificate in Sudan the number of students per year is more than 100,000 student, in different branches, academic, commercial, technological and agricultural branches. the system use Clipper database language with NOVELL Netware, using 12 terminals and two file servers, the function of the system is to read the row marks of the students with secret numbers, process the result and gives reports about the general results ( the percentage of the result, statistics reports about subjects, schools, states, areas inside the Country ,....) , the system print the result for the schools and print the individual certificates for the students, finally the system prepare a data to the acceptance process to the universities

**Project 3: UNDP Quality assurance process for the computer science department (2002)**

It was the quality assurance process for the computer science department (at that time) the process includes training and application of the quality assurance process to the department

**Project 4: Sudanese Internet Filtering System(2003)**

The project was the first project in Sudan to filter the Internet traffic, The project was a National project, and established by the National Telecommunication Center, I was the head of the technical committee, the responsibility of the committee was to design the system, prepar the tender document, evaluat the offers and select the suitable offer, and to follow the installations. After the installation the committee gave the needed advises to NTC to follow-up and run the system.

**Project 5: Compter for everyhome project (2005-2006)**

The project was started at 2004 to bring 50000 PCs for the Sudanese families. It was an international project and I was a member in the technical committee of the project. The role of the committee was to prepar the tender document, rank the offers, and follow (technically) the implementation process, the project has been followed by another project to get 5000 laptops to the university staff, which will be launched very soon.

**Project 6: E-University Project (2006 - Ongoing )**

Team member of technical committee in Ministry of Higher Education, the committee looks after the ICT Infrastructure of the Sudanese universities.

**Project 7: E-Government (2006 - Ongoing )**

Team leader of the national technical committee in the National Information Center, the committee coordinate with the comapnes to build the National Network.

## **Academic programs and academic committees**

- 1- A member of many quality and assessment committees to follow the private colleges in Sudan, the committees was assessing mor than 20 colleges in different areas.
- 2- Senior Assesor, National Secondary School Certificate,
- 3- An External examiner for more than 10 programs including the following colleges:
  - College of Technolical Sciences ( 3 times)
  - ComputerMan College (2 times)
  - Elbayan College (2 times).
  - Port-Sudan College.
  - Camboni Collge.
  - Jordanian College.
- 4- A member of many academic program design committees which includes:
  - (a) Sudan University of Science and Technology:
    - The M.Sc. program in Computer Science,CCSIT, SUST
    - The M.Sc. program in Information Technology,CCSIT, SUST
    - The B.Sc. program in Computer Science,CCSIT, SUST
    - The B.Sc. in Computer and Information Systems, CCSIT, SUST
    - The B.Sc. in Computer Systems and Networks, CCSIT, SUST.
    - The B. Sc. In Softeare Engineering, CCSIT, SUST
    - The B.Sc. in Management Informtion Systems, college of commerce, SUST.
    - The B.Sc. in Electronics Engineering, College of Engineering, SUST.
    - The B.Sc. in Avionics, College of Engineering, SUST
    - The 2-year Diploma programe in computer Science, SUST.
    - The 3 year diploma in Management Information System, SUST.
    - The 3 year diploma in Information Technology, SUST.
  - (b) Other Sudanese universities and colleges:
    - Karary Academy, B. Sc. In Computer Engineering, Computer Sciences. And M.Sc. in Computer Science
    - The Model program for a 3 year diploma in Coputer Networking, Ministry of Higher Education.
    - The Model program for a 3 year diploma in Coputer Maintenance, Ministry of Higher Education.
    - El Ma'arifa College, B.Sc. and Diploma programs in Information Technology, E-Coommerce, Networking, ... etc.
    - Elmanhal College, B. Sc. In computer Engineering, Communications Engineering, Diplma in Computer networking and diploma in Computer maintenance.
    - Africa International University, B.Sc. in computer Engineering and Communications.

## **HARDWARE SKILLS**

- Networking skills (design, Implementation, administration, and monitoring).
- Hardware skills on PC's ( Installation, Maintenance and solving problems)
- NOVELL Local Area Networks ( Installation, maintenance and administration)
- Computer Interface circuits using Serial, Parallel ports and direct interface using Expansion slots directly.

### **SOFTWARE SKILLS**

- Pascal
- C and C++ language
- Basic
- Assembly language for Intel microprocessors
- DBase III+
- System Programming using CLIPPER to design single user, or multi-user systems using NOVELL NETWARE Operating Systems

### **SUBJECTS AND PROJECT SUPERVISION:**

During the past ten years I was teaching the following subjects including the laboratories supervision and the tutorial work:

#### **Post Graduate level ( Master Degree students ):**

- Computer Networks
- Networks Security
- Computer Architecture.
- Operating Systems.
- Microprocessors and assembly language.

#### **Undergraduate Students:**

- Introduction to computers.
- Digital Systems
- Structured programming language.
- Programming skills.
- Microprocessor.
- Assembly Language.
- Computer Networks.
- Network Security.
- Computer Architecture.
- Operating Systems.
- Network Technologies.

#### **Project supervision:**

During the last five years I supervised many project ( about 60 projects) in different areas in computer science, information technology, and computer engineering inside SUST and with many students outside SUST including: University of Khartoum, Omdurman Islamic university, Karay Academy, Africa University and many private colleges.

Three master projects in computer engineering as a co-supervisor.

Two master projects as a main supervisor.

### **PUBLICATIONS**

- Paper on Aspects of Networks Security, Arab World and information Society Forum, UNISCO , Tunisia, May 1997.
- Computer Networks Policy for the Country, Toward Natunal Information Policy forum, October 1999, Khartoum, Sudan.
- “Assembly Language for 8088 familly”. Textbook, SUST, 2001
- “Digital Logic Design”, Sudan Open University, 2006

### **COMMITTEES:**

- Member of the committee of the IT strategy plan for the country, 1999
- Member of the the Computer Studies Committee, Ministry of Higher Education, 1999.
- Member of the National Internet Society, 2000.
- Member of the Ministry of Higher Education committee for the teachnical dipolmas. 2002.
- Member of the technical committee of the IT Fund, NTC
- Member of the acadmic committee, SUST
- Member of the Quality assurance Committee, SUST

### **CONSULTANCIES:**

- The official consultant of the following organizations:
  - Ministry of Foreign affairs.
  - Ministry of education.
  - Student national fund.
  - Agricultural Bank of Sudan.

### **CURRENT STATUS**

- Assistant Professor,
- Manager of the Computer Center, Sudan University of Sceince and Technology.
- Director of the Distance Education Center, Sudan University of Sceince and Technology.