

Curriculum Vitae

Name: Amna Mirghani Elhaj Seed

Date of Birth: 2/3/1978

Nationality: Sudanese

Language: Arabic & English

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Education:

- M.Eng in communication engineer Sudan university 2007-working on research at grid computing.
- B.ENG in Electronics communication engineering from Sudan University of science and technology (SUST), Honors Second Upper degree first class AUG 2001
- Major Subjects:
 1. Digital circuits.
 2. Electronically circuits.
 3. Automatic control.
 4. Programming language (C++, Java).
 5. Digital and microprocessor system design.
 6. Measure and data Acquisition.
 7. Satellite combination.
 8. Microwave engineering.
 9. Digital signal processing.
 10. Computer network.
 11. Optical fiber communication.

Final Project:

The name of the final project: the SIM card programming for mobile by using java the third generation of mobile communication Universal Mobile Telecommunication System (UMTS) & General Packet Radio services (GPRS) & the Global System Mobile (GSM).

Sun Micro System launched a competition on the web for knew ideas to improve mobile services. The competition was open to every one willing to develop an idea, should the idea raise interest to the company personnel, the required tools for implementing the services would be sent put to the individual .

In line with the above, we applied to the competition with an idea for a new service which was accepted by the company and the necessary tools for implementation were sent out to us, these tools are three smart cards, software CD & card reader.

Other Courses:

- Galaxy company computer network & maintenance course.
- ELFI computer college at SUST, computer network & maintenance course.
- ACTS CO.LTD the Microsoft Certificate System Engineering Nt.4 course.
- British council English course.
- APTECH international CO.LTD MCSE 2000.
- Computer center at SUST an international computer driving license (ICDL), Obtained the ICDL certificate April 2003 issued by UNISCO CAIRO OFFICE.
- Intensive workshop on ISO 9001:2000 Quality management system for IT organization September 2003.

Training:

- **A**dvanced computer and telecommunication service (ACTS) from 7/9/ to 16/10/1999 responsible of :
 - ü Troubleshooting, maintenance & installation of PCs, and printers.
 - ü Computer network installation and maintenance.
- **W**orkshop training at South Africa in the information and communication technology field the workshop is directed from different big companies SEMENCE, ALCATEL & IBM, supervised by the International Telecommunication Union (ITU) at **TELECOM AFRICA 2001 – Johannesburg-12-16 November 2001.**
- Sudan University of science and technology – Computer center 2002- network department working on:

- ü Network administrating and operating system (win 2000 server, exchange sever and mail server).
- ü Planning and structuring network.
- ü Network troubleshooting, maintenance and installation.
- ü Network documentation.
- ü Linux operating system.

Employment History:

- From Jan 2002 to April 2002 work as network engineer at computer international advanced technology (CIAT) in addition of teaching the fowling courses:
 - ü Basic concepts of computers hardware and maintenance.
 - ü LAN installation and interconnection.
- Teaching assistant at Leader Company Khr 2 English speaking course for kid's British council syllabus.
- Teaching assistant for advance network course at ELFI College in Sudan University Aug 2003:
 - ü Introduction to computers.
 - ü Computer Networks.
 - ü Installation of Operating systems (Win, Linux).
 - ü PC's Installation, Maintenance
- **Research and development R&D** manager at SUST computer center 2004- responsible of execute and manage the department project such as:
 - ü Ministry of Higher education network project.
 - ü Technical Laboratories center – South campus.
 - ü Smart Class room project.
 - ü Network Consultant for Marawi Dam –wireless solution.
 - ü Consultant study for Ministry Water Irrigation resources.
 - ü Supervision of implementing SSMO web side.
 - ü Working on SUST community social development project – with SUST principal office –running projects such as:
 - ü Sudan university Central laboratories which funded by Schlumberger Organization at Malakal and Darfur Estate.
 - ü Al Noor institute for Blind –rehabilitation of higher school for blind.

Research projects:

Grid computing project

Grid computing is a multiple number of the same classes of computers clustered together as parallel processing which means running program or application on many computers or processor after divide its instruction to many processes

This project aimed to:

- Establishing SUST research unit to work on grid environment.
- Increase SUST network application high performance.
- Supporting SUST programmers to gain high system performance.
- To reach secure applications using grid middleware.
- Using clustering technologies.
- Solving problems for sensitive application.

Responsibilities:

- ü Project manger.
- ü Establishing and preparing grid computing lab.
- ü Network concepts specification and topologies.
- ü Testing and building clusters.
- ü Controlling and monitoring processors.
- ü Installing Linux operating systems.

Duration: From 9/4/2006 until 15/5/006

Manage and implement grid computing real application projects
2007-2008:

1. Video conversion example with Gloubs toolkit
2. Grid computing traffic simulation.
3. Clustering and Load Balancing.
4. High availability web server.
5. VOIP with cluster.
 - Working with Electronic system research center – South campus as team leader for grid computing projects March 2008.
 - Supervision fro many project (about 5 projects) in grid computing, clustering and Massage passing

interface MPI, inside SUST information technology.

International activities:

- Participate at SUN Micro system competition, win the first and received the implementing tools.
- At 2001 South Africa youth forum get Spencer ship.
- Participate with ITU/ALCATEL INITIATIVE, got an invitation, participate by writing an internet project showing how to bridge the digital divide and concretely implement universal access to internet. The project start at May 2002- Supervised by Barabara Wilson at ITU contacts: (barabara.wilson@itu.int) & (jean-maie.jb.balanchard@alcatel.fr).
- At 2003 participate with ICT project proposal with Schlumberger through the web.

References:

- Dr. Osama Abdulwahab Mohammed Rayis,
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