# Ahmad Essam Abdu Al-Raheem

| CONTACT INFORMATION | Nationality: Sudanese | Date of Birth: 24 - Aug- 1985 |
|---|---|---|
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**OBJECTIVE**

Programmer with in-depth knowledge looking for challenging position in the field of open source application development and system programming to:

- Gain experience in the field.
- Raise the work efficiency.

**RESEARCH INTERESTS**

Operating system development, kernel and system programming, free and open source applications/libraries development and cross platform programming with C++/Qt.

**EDUCATION**

**Khartoum University**, Sudan

*Bachelor (BSc) Degree in Computer Sciences*　　　　　　　　**October 2004 − July 2010**

**TECHNICAL SKILLS:**

| Programming Languages: | |
|---|---|
| C | *Expert* |
| C++ | *Expert* |
| Qt | *Expert* |
| Java SE | *Moderate* |
| HTML/XHTML and CSS | *Expert* |
| XML and Java script | *Moderate* |
| PHP | *Moderate* |
| x86 Assembly | *Expert* |
| DBMS: | |
| MySQL, SQLite, PostgreSQL | *Expert* |
| Oracle | *Moderate* |
| Applied Knowledge: | |
| UML/OOP/Design Patterns | *Excellent* |
| Object oriented system analysis and design | *Excellent* |
| Relational database design | *Excellent* |
| Debugging and unit testing | *Moderate* |
| Coding style and documentation | *Expert* |
| Linux administration | *Excellent* |
| Open Source Application/Tools/Libraries: | |
| GNU's tools and libraries | *Excellent* |
| Asterisk : VOIP,PBX | *Moderate* |
| Content management system: Joomla,wordpress | *Excellent* |
| Control Version Managements: git,svn,cvs | *Excellent* |
| Bug and Issue tracking system: Trac. | *Excellent* |
| LaTeX typesetting system | *Expert* |
| Open Office and Koffice. | *Excellent* |
| Linux Distributions | *Excellent* |

**AWARDS AND COMMUNITY EXPERIENCE**

2nd place for University of Khartoum - Faculty of Mathematical sciences "School Got Talent" programming competition.　　　　　　　　**May 2010**

Cross platform Administration in arabteam2000.com website.　　　　　　　　**2009 - present**

Webmaster and Moderating Computer science student's community in Sudan http://sudancs.com website.　　　　　　　　**2008 - present**

Webmaster and Moderating Qt Arabic community http://qt-ar.org website.　　　　　　　　**2008 - present**

**SELECTED PUBLICATIONS**

Ahmad E. A., "Design and implementation of operating system", *University of Khartoum*,2010.

Ahmad E. A., "Reusing of open source libraries", *Computer science student's community in Sudan*,2009.

Ahmad E. A., "Cross platform development with Qt", *Qt arabic community*,2008.

Ahmad E. A., "C++ in a nutshell", *Qt arabic community*,2008.

Ahmad E. A., "Data structure for absolute beginners", *Visual C for arab web site*,2007.

<table>
<tr><td>RECENT PROJECTS</td><td><b>eqraOS</b>: An open source operating system written from scratch for academic purpose , it support alot of modern OS's features like 32-bit PMode,Virtual Memory with paging,support up-to 4 GiB physical memory. (C/C++,Assembly).</td></tr>
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**eqraOS**: An open source operating system written from scratch for academic purpose , it support alot of modern OS's features like 32-bit PMode,Virtual Memory with paging,support up-to 4 GiB physical memory. (C/C++,Assembly).

**Al-Moazen**: Cross platform GUI application for calculating Muslim prayers times by a powerful mathematical equations. it has a handful of features like Azan, Azkar and ability to run on Windows,Linux,Embedded devices and Mac OS X (C++/Qt).

**SMS server**: Linux Application for sending and receiving SMS by connect a GSM modem to the computer (C++).

**Function plotter**: Cross platform mathematical functions plotter, it can draw all mathematical functinos. the development team include Ahmad Essam, Muhammad Al-Abdly and Ahmad adel (C++/Qt).

**Al-Nozom managment system**: System for managing Al-Nozom company in Saudi Arabia, it was targeted to work in Windows,Linux and Nokia Mobiles (C++/Qt).

**Al-Mymana medical accouting system**: System for managing accounts for Al-Mymana Medical in Sudan (C++/Qt).

**Alot of mini applications and programs, like**:
- Files splitter/merger: split large file to smaller size then merge them without corruptions or modifications.
- QPlayer: Cross platform MP3 player program.
- C++ text editor: C++ editor with a lot of features like highlighting and indentation.

LANGUAGE

**Arabic**: native language.
**English**: working knowledge (excellent in reading, good in speaking & listening).

PERSONAL SKILLS

Interactive and able to learn new technologies and Languages.
Perfect ability to meet deadlines and work under pressure.
Ability to work individual and as part of a team.
Ability to think "outside the box".

REFEREES

*Available on request.*