

Mohamed Aslan

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Objective

Seeking a teaching or a research assistant position at a university or a research lab.

Education

- **Arab Academy for Science and Technology** Alexandria, Egypt
M.Sc. Computer Engineering Sept. 2008 - Feb. 2012
 - Thesis Title: “The Design and Implementation of a Flexible Agent-based Scalable Network Emulator for Wireless Sensor Networks”
 - Excellent with Honours
- **Arab Academy for Science and Technology** Alexandria, Egypt
B.Sc. Computer Engineering 2004 - 2008
 - Graduation Project: “Smart Video Surveillance and Monitoring Systems”
 - Excellent with Honours

Work Experience

- **Arab Academy for Science and Technology** Alexandria Egypt
Teaching Assistant Sept. 2008 - Present
 - Teaching laboratory and tutorial sessions.
 - Preparing and grading exams and assignments.

Awards, Grants & Honours

Arab Academy for Science and Technology, Graduate Assistantship Award (\$10 000) 2008

Computer Skills

- Operating Systems
 - **Expert:** FreeBSD, OpenBSD, Linux
 - **Intermediate:** Solaris
- Markup Languages
 - **Expert:** HTML, XHTML, XML
 - **Intermediate:** CSS

- Programming Languages
 - **Expert:** Assembly, C, C++, Java
 - **Intermediate:** C#
- Web Programming
 - **Expert:** PHP
 - **Intermediate:** JSP, JavaScript, AJAX
- Databases
 - **Expert:** MySQL
 - **Intermediate:** Oracle, SQLite
- Libraries
 - **Expert:** Gtk+
 - **Intermediate:** X11

Courses Taught

- Introduction to Computers
- Structure Programming
- Programming Application
- Digital Logic Design
- Object-Oriented Programming
- Data Acquisition Systems
- Computer Graphics
- Assembly Language
- Computing Algorithms
- Operating Systems
- Computer Networks

List of Publications

- Sherin M. Youssef, M. Abou El-Nasr and **Mohamed A. Aslan**, “*WiEmu: The Design and Implementation of a Flexible Agent-based Scalable Network Emulator for Wireless Sensor Networks*,” in the 2012 International Conference on Network and Computer Science (ICNCS 2012), Hong Kong, China, March 2012.
- **Mohamed A. Aslan** and M. Abou El-Nasr, “*Evaluation Tools for Wireless Sensor Networks: A Survey*,” under publishing, 2012.

List of Projects

This list of projects is not a complete list.

- LibOSDK
 - Operating System Development Kit, is a set of framework libraries written in assembly designed to help in OS construction. LibOSDK allows the development of kernels entirely in a higher level language without the use of any assembly code. It has been yet tested with C and Pascal.
 - <http://libosdk.berlios.de>
- WiEmu
 - A Distributed Agent-based Wireless Sensor Networks Emulator. WiEmu allows the accurate evaluation of performance and energy consumption of wireless sensor networks. It tries to overcome the limitations of network simulation by the incorporation of network emulation. To overcome scalability issues, WiEmu uses a distributed agent-based approach.
 - <http://wiemu.berlios.de>
- kHTTPd
 - A FreeBSD kernel module that implements a multi-threaded kernel-space HTTP/1.0 server.

Events and Activities

- Couch of the Arab Academy for Science and Technology team in the 14th Arab ACM programming contest (ACPC), 2011, (10th place).
- Couch of the Arab Academy for Science and Technology team in the 10th Egyptian national ACM programming contest (ECPC), 2011, (9th place).
- Couch of the Arab Academy for Science and Technology team in the 9th Egyptian national ACM programming contest (ECPC), 2010. (Honorable mention)
- Member in the scientific committee of the 6th Egyptian Olympiad in Informatics (EOI) 2009.
- Member in the scientific committee of the 20th International Olympiad in Informatics (IOI) 2008.
- Administration of the department of computer engineering server and the design of the website.

References

References and letters of recommendation are available on request.