

## *Curriculum Vitae*

# Sameer Allan Alawnah

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## EDUCATION

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- **M.Sc. Computer Engineering**, American University of Sharjah, U.A.E 2013  
Graduated with CGPA 4/4, Thesis Title: Modeling Smartphone Power
- **B.Sc. Computer Engineering**, An-Najah National University, Palestine 2009  
Graduated with honor (Percent Grade: 92.5 %). Top student in Computer Engineering Department

## CERTIFICATIONS

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- RHCSA - Red Hat Certified System Administrator, License 180-191-561 2018 – 2021
- Data Scientist - Mastery Award for Educators, IBM Skills Academy 2017 – 2019  
License: <https://www.youracclaim.com/badges/b71bd1f3-129e-43c7-b5e0-b31335d800ba>
- Big Data Developer - Mastery Award for Students, IBM Skills Academy 2016  
License: <https://www.youracclaim.com/badges/6320a10e-354b-41c3-8196-f7f2a5cb8471>
- HP ATA – Cloud, License 2UMS-XL83 2014
- HP ATA – Servers & Storage, License eFTU-4TTR 2014
- HP ATA – Networks, License mnmu-XVLM 2014
- HP-ATA – Connected Devices, License wCyr-4SXA 2013

## ACADEMIC / TEACHING EXPERIENCE

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- Lab Instructor** College of Engineering, American University of Sharjah, U.A.E 2013-Now
- Teaching C/C++ languages, Java, Digital Systems and Computer Security labs to undergraduate students.
- RHCSA Instructor** College of Engineering, American University of Sharjah, U.A.E 2017-Now
- Teaching undergraduate students Red Hat Linux System Administration as part of Red Hat Academy.
- HP ATA Instructor** College of Engineering, American University of Sharjah, U.A.E 2015-2017
- Teaching HPA ATA Connected Devices, Networks and Servers and Storage training courses.
- Teaching and Research Assistant** College of Engineering, American University of Sharjah, U.A.E 2010-2012
- Assisted in teaching C and C++ language, MATLAB and FPGA to undergraduate students.
  - Assisted senior students with their senior design projects.
  - Graded assignments and exams.
  - Worked on power modeling for Android mobile smartphone (my master thesis), required the development of Android logger, server-side sample generator and power modeling using regression analysis, curve fitting and neural networks.
  - Worked on instruction level power estimation for ATmega32 microcontrollers, this work includes measuring power, power spectrum, instruments to computer interfacing, power modeling and programming using C and Java.

## **PUBLICATIONS**

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- Alawnah, S., Mukhopadhyay, S., & Sagahyroon, A. (2020). Universal adaptive stabilization-based trend filtering for impending battery voltage collapse detection. *IEEE Control Systems Letters*, 5(2), 635-640.
- Hallal, H. H., Aloul, F., Alawnah, S., Kolli, P., & Alnabulsi, A. (2020, April). Improving student experience using automated toolset of academic services. In *Proceedings of the 2020 6th International Conference on Computer and Technology Applications* (pp. 97-101).
- AlHamaydeh, M., Aly, N., Najib, M., & Alawnah, S. (2019). INSPECT-PBEE: A performance-based earthquake engineering GUI for IDARC-2D. *SoftwareX*, 9, 132-144.
- Alawnah, S., & Sagahyroon, A. (2017). Modeling of smartphones' power using neural networks. *EURASIP Journal on Embedded Systems*, 2017(1), 1-11.
- AlHamaydeh, M., Najib, M., & Alawnah, S. (2016). INSPECT: A graphical user interface software package for IDARC-2D. *SoftwareX*, 5, 243-251.
- Alawnah, S., & Sagahyroon, A. (2015, March). Smartphones power. In *2015 International Conference on Electrical and Information Technologies (ICEIT)* (pp. 100-103). IEEE.
- Al-Radaideh, A., Al-Ali, A. R., Bheiry, S., & Alawnah, S. (2015, March). A wireless sensor network monitoring system for highway bridges. In *2015 international conference on electrical and information technologies (ICEIT)* (pp. 119-124). IEEE.
- Alawnah, S., & Sagahyroon, A. (2013). Modeling smartphones power. In *Eurocon 2013 on* (pp. 369-374). IEEE

## **NON-ACADEMIC WORK EXPERIENCE**

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**Software Engineer** at Computer Science and Engineering Dept., American University of Sharjah, UAE 2016-Now

- Worked with a team to develop and maintain the department website as part of my job duties.
- Developed a mobile-based students attendance system.
- Developed a web-based student advising system, in which is implemented at the college level, you can look at the general advising (not the per student page) using the following link: <http://auscse.com/advising.php>

**Software Engineer** at the College of Engineering, American University of Sharjah, UAE 2017-2018

- Developed a web-based student advising system for the college of engineering, I worked for 200 working hours during summer 2017.
- Developed a web-based freshman students advising system for the college of engineering, I worked for 90 working hours during spring 2018.

**IT Support Specialist** at Academic Computing, American University of Sharjah, UAE Sept. 2012 – Sept. 2013

- Provided Network and PC/Laptop support in a Windows XP/7 environment for all IT clients (students, staff, and faculty).
- Setup and support of Linux-based Electronic Design Automation laboratory and software (Synopsys and Cadence).
- Conducted tutorial on Red Hat Linux for IT Specialists in Academic Computing.
- Resolved many common computer problems, including backing up data, securing computer, setup, deployment, and creation of PC images and updating operating system and applications.

**System Engineer** at Academic Computing, American University of Sharjah, UAE June 2012 – August 2012

- Developed Management System for CAAD rendering farm. Server/Client Application for Windows and Mac OSX, used for Server (Farm), jobs and users' management

**Software Engineer Internship at** Infinite Tiers Company, Palestine

June 2008 - September 2008

- Developed Gift Card Project using Java, Servlet, JSP, MySQL, JBoss, magnetic strip card reader/writer and C#, marshaling accounting system.

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## **ADDITIONAL PROFESSIONAL DEVELOPMENT ACHIEVEMENTS**

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### **Projects**

- Worked with Computer and Electrical teams for controlling a Medical Bed. First winner in Made in Palestine Competition for Professionals, 2010.
- Controlled a Stone Engraving Machine (2D CNC Machine) with the Computer and Electrical teams. Second winner in Made in Palestine Competition for Professionals, 2009.
- PLC over PIC (SamPLC) using C# and PIC18F4620, Compiler for PIC18F4620 Microcontroller to Program it in PLC Fashion (Ladder Diagram).
- SCROM Compliant Authoring Tool using, Course Authoring Tool for SCORM compliant Learning Management Systems, the tool is used as the official authoring tool for An-Najah National University.

### **Workshops attended**

- Cadence AMS RF workshop, College of Engineering, American University of Sharjah March 2013
  - Analog Mixed Signal (AMS)
  - RF analysis & Simulations with Specter & APS
  - Virtuoso Visualization & Analysis Waveform Viewer
  - Rapid Analog prototyping/ Physical Verification Environment (PVE)
- Co-Design workshop using Altera DE0 FPGA Kit, An-Najah National University December 2009
  - VHDL
  - NIOS 2 processor
  - Memory Interfacing to Altera DE0
  - LCD and VGA Interfacing to Altera DE0

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## **COMPUTER AND ELECTRICAL ENGINEERING SKILLS**

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- **Programming languages:** Assembly, C++, Java, Cocoa(XCode) and C# Languages
- **Machine learning:** Regression analysis, Neural Networks, Clustering, and Gradient boosting.
- **Web Sites Design:** PHP, Java Script, ASP.NET, DotNet Core, JSP and Servlet Languages
- **Databases:** Microsoft Access, MySQL, Oracle, and any SQL-based database
- **Digital Design:** Microcontrollers, PLCs, FPGA, and off-the-shelf components and sensors
- **Measurements and Instrumentations:** Voltmeters, Ammeters, Oscilloscopes, DAQs, Digital Analyzers and Instruments to Computer interfacing using VISA protocol.

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## **LANGUAGES**

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- English [Fluent]
- Arabic [Mother Tongue]

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## **QUALIFICATIONS EXAMS**

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- TOFEL (iBT): 82 expired, taken on 24/04/2010