

Noha M. Sadek

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OBJECTIVE

A challenging career opportunity where my unique combination of creativity, experience and skills can be applied to achieve organizational goals and create new avenues in my field of specialization.

EDUCATION

Master of Science, The American University in Cairo (AUC), Cairo, Egypt, expected September 2014.

Major: Communications and Electronics Engineering

GPA: 3.9/4.0

Bachelor of Science, The American University in Cairo (AUC), Cairo, Egypt, February 2005.

Major: Communications and Electronics Engineering

Double Minor: Computer Science and Business Administration

GPA: 3.81/4.0, Highest Honors, Dean's List

Graduation Project: Implementation of a real-time "Voice over Internet Protocol" (VoIP) System on two TI Digital Signal Processors (DSPs)

- Developed VoIP protocol stack on C6711 TI DSP using Code Composer Studio
- Worked on H.323 standard which incorporated other protocols: TCP/IP, UDP, RTP and G.711 compression technique
- Programmed 2 PIC microcontrollers to interface with external circuitry and UART interface on the PC

Relevant Coursework: Mobile Communications; Advanced Digital Communication; Computer Communication Networks; Microcontroller System Design; Computer Architecture; Data Structures and Algorithms; Digital Control Systems; Testing of Digital Circuits; Fundamentals of Communications; Electronics Devices and Circuits; Linear Systems Analysis; Automatic Control; Electromagnetic Theory I & II; Digital Logic Design; Waves, Computer Organization; Data and Computer Communications.

General Secondary School Certificate, Armenian Catholic Sister's School, Cairo, Egypt, June 1999, Math section, score: 98.7%

Cross-cultural work environments: Heavy international exposure via international assignments and conferences, and deep understanding of social cultures of various European countries (residence in France), United States, Asia, and most Middle Eastern countries.

PROFESSIONAL CERTIFICATES

- Marquis Who's Who in the World[®], 31st Edition, 2014.
- Living Building Challenge, International Living Future Institute, March 2013.
- IEEE, Computer Society Certified Software Development Associate (CSDA), April 2008.

PUBLICATIONS

- Sadek, Noha, "Urban Electric Vehicles: A Contemporary Business Case", European Transport Research Review Journal, SpringerLink, 2012.
- Sadek, Noha, "Prospects of Electric Vehicles in Middle-East North Africa Markets", Proceedings of 2011 IEEE GCC Conference and Exhibition, Feb. 19-22, 2011.

BACKGROUND SUMMARY**Computer and Language Skills**

- MS Word , Excel , Power Point , Front page, C/C++, JAVA, J2ME, VHDL, Pascal, Fortran77, Visual Basic, HTML, XML, UNIX.
- Software Packages: OPNET, MatLab, AutoCAD, MultiSim, Adobe Photoshop, Macromedia Flash, Macromedia Dreamweaver, Visio, and Smart Draw.
- Operating Systems: Windows and Unix

- **Written and verbal communications in languages:** Arabic (Native), English (Fluent), French (Very Good), German (Basic)

CAREER-RELATED EXPERIENCE

January 2013 Intelligent Transportation Society, USA, Judge of Best of ITS Awards.
- Reviewer and Evaluator of applications to the award.

February 2005 – Present **IBM**, Consultant and Project Manager, Global Delivery Center.

June 2012 – July 2012 China, Consultant.

Being a global top-performing employee, I was selected by IBM World-wide to participate in the Corporate Service Corps (CSC) program.

- Provided technical and business consultancy services and recommendations to many Chinese companies.
- Delivered training, workshops and round-table discussions to professors, staff and students at Ningbo University.

June 2011 – Sept. 2011 **AT&T**, United States of America, Project Manager, Wireless Data Products.

- Planned and managed activities and projects that support the business customers. This includes the exploration, implementation, testing and maintenance of new technologies.
- Participated in all phases of projects including design, development, testing and production.
- Interfaced daily with multiple client managers, built strong working relationships with clients and managed their expectations.
- Assisted clients in defining their requirements for new projects.
- Prepared and presented product demonstrations to company's executives, top management, business customers and marketing directors.
- Worked closely with vendor companies and sub-contractors where I created and reinforced partnerships and used these relationships to improve the delivery of projects.
- Directed the work of project team consisting of architects, senior developers, system administrators, web designers and business analysts.

July 2009 – August 2009 **Valeo**, France, Senior Embedded Systems Engineer/ Project Leader, Engine Management Systems.

- Participated in the launch of the company's latest technological project: Flex-fuel engine.
- Represented my team in meetings with end-customer (OEM) to discuss technical issues and manage project requirements.
- Attended a series of extensive trainings on: prototype creation, fault management, quality assurance and project management tools.

Sept. 2006- April 2011 **IBM**, Egypt, Senior Embedded Systems Engineer/ Project Leader & Offshore Coordinator, Technology Development Center.

- Led and trained a team of engineers on development methodologies and strategies
- Coordinated development efforts and extensively communicated with the client both remotely and onsite to achieve project success
- Worked on project planning and estimation, creating project schedules and tasks allocation
- Developed experience in full project life cycle development for implementation and validation
- Participated in pre-project studies and solution selection in early project phases
- Learned about On-board diagnostic systems (EOBD), Immobilizer and Euro5 standard.

June 2006- September 2006 **Valeo**, France, Embedded Systems Engineer, Engine Management Systems.

- Worked on Electronic Control Units concerned with the management of car engines
- Developed an ISO based "Unified Diagnostic System" by which engine problems can be diagnosed in the service center
- Attended an on-site training on the specifications of different car engines

February 2005- May 2006 **IBM**, Egypt, Embedded Systems Engineer, Technology Development Center.

- Responsible of developing embedded systems applications for the Automotive Industry
- Developed a car black box telematics solution using embedded JAVA (J2ME)
- Developed knowledge about automotive-specific microcontrollers features: PWM (Pulse Width Modulation), LIN (Local Inter-connected Network), CAN (Controller Area Network)
- Worked on several software tools such as CANalyzer, INCA, Rational Clear Case, Rational Clear Quest, Rational Test Real-time; Rational RequisitePro and Reqtify design tools; WebSphere Studio Device Developer, Metrowerks CodeWarrior, CodeWright and Cosmic IDEs; QAC and PCLint verification tools.
- Learned about Quality Assurance concepts and tools
- Familiar with CMM/ CMMI standards
- Dealt extensively with automotive specific standards including AUTOSAR and MISRA
- Learned about efficient coding, documentation and testing styles through specialized training

November 2006 **United Nations**, Egypt, Part-time Conference Assistant.

- Participated in organizing conferences for the UNESCO, UNICEF and World Bank
- Coordinated with the Ministry of Education in organizing “The Sixth High-level Group Meeting on Education for All”

February 2005- May 2005 **AUC**, Egypt, Graduate Teaching Assistant, Electronics Engineering Department.

- Introduced students to “Digital Testing” concepts and techniques through a specialized course
- Explored “Mentor Graphics” DFT (Design-for-Test) tools through a training session

Summer 2004 **Vodafone**, Egypt, Engineering Trainee, Professional Services Department and Technology Development Department (Core Networks Team)

- Tested Roaming networks using IREG/ GSM techniques (GSM, GPRS, CAMEL)
- Participated in the functional and service acceptance of new switching nodes
- Introduced to GSM, GPRS, UMTS and signaling concepts through extensive readings
- Communicated with other roaming networks worldwide for setup and testing of networks
- Researched several technical issues in the VLive! Project
- Performed several presentations and wrote technical reports about several projects (SMS, AMS) in the VAS (Value Added Services) department.

Spring 2004 **AUC**, Egypt, Research Assistant, Electronics Engineering Department.

- Investigated several “Voice Over IP” (VOIP) related issues in a university-funded research project.
- Inspected and compared hardware products and made recommendations based on technical specifications.
- Reviewed and summarized a technical report and proposal.

Spring 2002-2003 **AUC**, Egypt, Teaching Assistant, Electronics Engineering Department, course: Digital Logic Design (EENG210).

- Designed and developed a web site using WEBCT which includes course material, assignments, and exams for “Electronics Engineering” students.
- Researched extensively on Digital Circuits Design.

July 2003 **National Telecommunications Institute**, Summer Trainee

- Introduced to the design and implementation of ‘Local Area Networks’ (LAN’s), ‘Wide Area Networks’ and ‘Wireless Networks’.
- Learned about several ‘Switching’ Technologies in the “Switching Department”.
- Designed and implemented ‘Printed Circuit Boards’ (PCB) in the “Electronics Department”.
- Built several Transmitter and Receiver circuits in the “Transmission Department” Lab.

August 2002 **Halliburton**, Oilfield and Engineering Services Company, Egypt, Data Analyst, Logging and Perforating Department.

- Learned about the Petroleum Industry through extensive training and reading.
- Introduced to several equipment and tools such as Reservoir Description Tools and Wave Sonic Tools.
- Created and programmed several macros for pre-job planners and post-job analysis.

-Participated in developing and implementing an “Indicator of Fluid Cleanup” Project in Reservoir Description Tools.

July 2002 **Baker Hughes Inteq**, Advanced Drilling Technologies and Services for Oilfield Industry, Workshop Trainee.

-Learned about the company’s major capabilities such as Directional Drilling, Measurement-While-Drilling (MWD), and Logging-While-Drilling (LWD) through several seminars and training in the company’s workshop.

-Exposed to one of the company’s new technologies, “The AUTO-TRACK”, an automatic pre-programmed drilling system.

-Successfully completed and passed the certification exam of “A Computer-Based Training” about “Wellbore Positioning” and “Environmental Health and Safety”.

-Planned several oil wells.

June 2002 **Citibank**, Financial Services Company, Egypt. Operations Trainee, Operations and Technology Department.

-Participated in daily financial transactions such as opening a new current/time-deposit account, internal or external transfers to accounts, credit cards, and loans.

-Learned the use of the “IBBS System” in performing daily transactions.

-Recorded and validated required legal documents for bank clients.

CONFERENCES & EVENTS

- Participant, AUC STEAM (Science, technology, engineering and mathematics) conference, Egypt, March 2013.
- Participant, First NTRA knowledge dissemination and networking Conference, Egypt, October 2011.
- Author, 2011 IEEE GCC Conference and Exhibition, UAE, 2011.
- Participant, Eurasian Silk Road Universities Convention, Turkey, 2010.
- Participant, 35th Annual International Conference of Association of Egyptian American Scholars (AEAS), Cairo, 2008.
- Texas Instruments Low Power RF Seminar, 2007-2010.

PROFESSIONAL MEMBERSHIPS

- Member, Internet Society, #417228, April 2014 - Present.
- Technical program committee member, ICEPIT 2014 (The 2014 International Conference on Electronic Publishing and Information Technology).
- Member, International Association of Engineers, January 2014.
- Technical program committee member, International Journal of Computing and Digital Systems, October 2013 – present.
- Member, IEEE Internet of Things Community, October 2013 – present.
- Member, IEEE Transportation Electrification Community, May 2013 – present.
- Member, Women in Cloud Computing, January 2013 – present.
- Member, Intelligent Transportation Society of America, June 2010 – present.
- Member, Women in Technology International (WITI), March 2009 – present.
- Member, Association of Egyptian American Scholars (AEAS), December 2008 – present.

EXTRACURRICULAR ACTIVITIES

- Participant, “ITU Telecom Africa”, 2008.
- Participant, “The International Conference on Telecommunication” (ICT), Cairo, 2008.
- Member, Model United Nations (MUN), Fundraising Committee, AUC, 2004-2005.
- Head, Electronics Engineering Association (EEA), Public Relations Committee, AUC, 2003.
- Participant, “ITU Telecom Africa”, 2004.
- Member, “The 9th International student Leadership Conference” (ISLC), Fundraising Committee (Organizing Committee), 2004.
- Participant, “The International Conference on Telecommunication” (ICT), Cairo, 2004.

- Delegate, The Second Conference on E-learning Applications in Egypt, Cairo, 2004.
- Usher, Office of Cultural Activities, AUC, La Fiesta Talent Show, 2004.
- Usher, Public Relations Department, AUC commencement ceremony, 2003.
- Member, Electronics Engineering Association (EEA), Activities Committee, AUC, 2003.
- Member, “The 8th International student Leadership Conference” (ISLC), Media Center Committee (Organizing Committee), 2003.
- Member, “The 3rd International Conference on Global Economy” (ICGE), Technical Committee (Organizing Committee), 2003.
- Delegate, “The 2nd International Conference on Information Technology” (ICIT), Network security Workshop (Organizing Committee), 2003.
- Member, Student Union, Activities Committee, 2003.
- Member, AIESEC, TN committee, 2003.
- Member, Eye On Technology Association, Activities Committee, AUC, 2001-2002.
- Member, Mechanical Engineering Club (MEC), Technical Committee, AUC, 2002.

HONORS AND AWARDS

- Outstanding academic achievement, Electronics Engineering Department, April 2013.
- Highest honors, Electronics Engineering Department, senior year.
- Higher honors, Electronics Engineering Department, junior year.
- Certificate of Honor, Office of Student Development, AUC, 2004.
- Certificate of Honor, Model United Nations, AUC, 2004.
- Dean’s Honors List, freshman year.

PERSONAL DATA

Date of Birth: January 12, 1982
 Place of Birth: Cairo, Egypt
 Nationality: Egyptian

REFERENCES FURNISHED UPON REQUEST