

Hoda A. Darwish

Project Manager & Business Analyst

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Personal Data:

- Date of Birth: December 12th 1987
- Nationality: Egyptian / American
- Marital Status: Single
- Languages: Arabic & English: Mother tongue, French: Good

Education:

- Registered for M.Sc at the Computer Engineering Department, Faculty of Engineering, Cairo University, Expected 2013
- B.Sc in Computer Engineering, Faculty of Engineering, Cairo University, July 2009, Distinguished with Honors, Overall 5 year GPA: 3.9.

Professional Associations:

- Student member of IEEE
- Member Egyptian Engineering Syndicate

Awards:

- 1st prize in the Mentor Graphics Graduation Projects Competition.
- 1st prize in the Computer Engineering Category of the EED (Egyptian Engineering Day) Competition.

Publications:

- Hoda Darwish, Hoda Shagar, Yasmine Badr, et.al., “A Hashing Mechanism for Rule-Based Decomposition in Double Patterning Photolithography”, *ICM'10*, December 2010.

Employment History:

- July 2010 – *Present*:
Associate Project Manager at Microsoft Consulting Services – Microsoft Egypt. (MACH FY11)
 - Managing diverse projects for Microsoft Consulting Services (MCS) specifically for strategic customers in the Banking sector
 - Managing the Deployment Planning Services (xDPS) Program for Egypt, NEPA & WECA wit target revenue \$1.1 Million.
 - Creating and maintaining internal processes/procedures
 - Created and currently maintaining an internal SharePoint based portal for the Services segment
 - CPE Champ working on ensuring quality to customers and customer satisfaction

- October 2009 – June 2010:
 - Teacher's Assistant at the Computer Engineering Department, Faculty of Engineering, Cairo University
 - Project Management Intern at MCS (Microsoft Consulting Services), Microsoft, Egypt.
- July 2008 – August 2008:

2 months at MPRG (Mobile & Portable Radio Group) Lab at Virginia Tech (Electrical & Computer Engineering Department). Designed and developed the website GUI and the logging database of the Software Defined Radio (SDR) research project. The project is using the thttpd server on Linux as well as Sqlite3 for the database.
- January 2008 – April 2008:

Taught computer skills to children aged 6-14 at TechnoKids center; these computer skills include Microsoft Word, PowerPoint and Excel.

Summer Internships:

- Summer 2007:

2 months at IBM Egypt (Helped members of the business analysis team on several projects in the Business Development & Delivery Management department. Modeling business processes and use cases, requirement gathering, compiling requirements documents and attending customer meetings).
- Summer 2006:

2 months at Microsoft Egypt (Responsible for the development of the user interface for the project: Creation of Microsoft Customers' web site to access consultant information, assess matching to job and check availability to work request (such as code review or other requests)).
- Winter 2006:

Completed the E-Thinking workshop (for creative thinking, system thinking and problem solving) by *Steps Towards Engineering Progress* (STEP), a student organized community at the Faculty of Engineering, Cairo University.
- Summer 2005:

2 months at Microsoft Egypt (Miscellaneous research assignments)

Sample Projects within Microsoft:

- National Bank of Egypt Middleware Implementation (Currently in progress)
- MOE Office 365 Enablement for 6.75 Million users (Currently in progress)
- Banque Misr Core Infrastructure Upgrade Envisioning & Design (Currently in progress)
- OHD Office 365 Exchange Migration
- Juhayna Office 365 Migration from a POP3 non-Microsoft environment
- EFG SCOM 2012 Deployment
- IHC Infrastructure Revamp (Currently in progress)
- Vodafone Global VIS (AD & Exchange Planning)
- CIB SharePoint Implementation
- OCI Exchange Migration & Disaster Recovery
- Mobinil MOSS Consolidation-FY11
- MCIT Sound & Light Portal Review
- GAFI CRM
- MCIT-Arab Internet Safety Portal
- MSS Families Master Data Management

Certifications:

- ITIL (IT Infrastructure Library)
- Project Management Certificate Program: The Kerzner Approach to Project Management Excellence

Computer Proficiency:

- Technical:
 - Programming Languages & IDEs: C#, C++, HTML, Java, JavaScript, Asp.Net, Microsoft Visual Studio (2002, 2005 & 2008), NetBeans IDE, JNI, SharePoint 2010 Designer
 - Matlab
 - Linux: VMware, CentOS, Ubuntu, Fedora with thttpd server, gcc/g++ compilers
 - Parallel Programming: OpenMP, MPI
- Databases:
 - Microsoft: SQL Server,
 - Oracle 10g,
 - Linux: Sqlite3 on Fedora
- Processes Modeling & Simulation; UML diagrams, IBM Websphere Business Modeler, IBM Rational Software Modeler, Digital Circuit Modeling (Altera and QuartusII), Calibre Suite (Mentor Graphics), Rockwell (Arena 9.0, Input Analyzer, Process Analyzer)
- Office: Word, PowerPoint, Excel, Visio, Outlook, Project, SharePoint
- Graphics: 3D studio, AutoCad

Courses:

- Multimedia
- Pattern Classification
- Microprocessor Based Systems (I&II)
- Image Processing
- Computer Languages and Compilers
- Neural Networks
- VLSI
- Control Engineering
- Communications (I&II)
- Computer Organization and Architecture (I & II)
- Logic Design
- Data Structures and Algorithms
- Programming Techniques
- Advanced Programming Techniques
- Parallel Programming
- Databases (I&II)
- Software Engineering
- Electronic Circuits (I & II)
- A+ Software and Hardware
- Network +
- Implementing and Supporting Microsoft Windows XP Professional
- Managing a Microsoft Windows Server 2003 Environment
- Introduction to C# Programming with Microsoft.Net
- Programming with C#
- Algorithms Design and Analysis
- Modeling and Simulation
- Operating Systems (I&II)
- Cryptography and Network Security
- Computer Networks(I&II)
- Wireless Networks
- Embedded Systems
- Artificial Intelligence (I&II)
- Computer Graphics

Sample Academic Projects:

- Embedded: Developed a system to control motor speed and display it on an LCD using the Atmel 8051 microcontroller and in system programming (in a team of 4).
Tools used: Keil uVision (Embedded C IDE).
- Modeled and simulated the delivery system of a fast food restaurant, its resource allocation and scheduling (in a team of 4).
Tools used: Rockwell (Arena 9.0, Input Analyzer, Process Analyzer)
- Pattern Recognition: Developed a Sketch Recognition Software System (in a team of 4).
Tools used: Matlab.
- Security: Researched Web attacks and implemented a prototype system to demonstrate some attacks and their countermeasures (in a team of 4).
Tools used: Visual Studio 2008 (C# .Net), SQL server 2005.
- Developed a Graph Modeling and Drawing tool (in a team of 4).
Tools used: Visual Studio 2005 (C++ .Net).
- Databases: Designed a database for keeping the history of Graduation projects of students in the Computer Engineering Department, and implemented a Web application as its interface (in a team of 4).
Tools used: Visual Studio 2005 (C#), Oracle 10g.
We later worked on optimizing and tuning the query and index processing for this database on SQL Server 2005.
- Interfacing: Implemented a model of a vehicle for painting sports courts (in a team of 4).
- Simulated (software) of the architecture of a processor with PDP-11 Instruction set.
Tools used: QuartusII.

Graduation/Research Project: *Split-It!*

- As the demand for even smaller devices increases, the IC industry is hard pressed to come up with new techniques for the manufacturing process. Photolithography is the main bottlenecks, thus Double Patterning emerged. The main idea is to split the design into 2 masks and apply photolithography to each in turn. As a result of splitting, feature density is enhanced (from 65nm to 32nm). We take a layout file in GDSII format, apply the appropriate splitting algorithm and stitching (error correction for printing distortions) then either give the 2 correct split masks or show if there are areas of conflict that prevent splitting (a team of 4).
- Tools Used: Linux OS (CentOS 5.2 or Ubuntu distribution), NetBeans IDE 6.5, Open source GDSII parser library: Anuvad 0.8, Mentor Graphics Calibre Tools.
- Sponsor: Mentor Graphics
- Grade: Distinguished
- Awards:
 - 1st prize in the Mentor Graphics Graduation Projects Competition.
 - 1st prize in the Computer Engineering Category of the EED (Egyptian Engineering Day) Competition.

Hobbies:

Reading

References:

To be furnished upon request.