

Mohamed H. Awida

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Date of birth : 11 March, 1981

<i>Education</i>	<p>M.Sc. in Electronic Engineering Ain Shams University, Cairo, Egypt</p> <p>“ Full Wave Modeling of Waveguide Discontinuities and Resonators For Satellite Filters’ Applications ”</p> <ul style="list-style-type: none"> ▪ Will master the design of microwave filters using waveguide discontinuities for satellite applications <p>B.Sc. in Electrical Engineering Major: Communications & Electronics Engineering Ain Shams University, Cairo, Egypt</p> <p style="text-align: center;">Grade :Distinction (86.7%) with honor</p>	<p>Aug. 2003 till now</p> <p>August 2002</p>
<i>Awards</i>	<ul style="list-style-type: none"> ▪ Student Achievement Award (1997-1998-1999-2000-2001-2002) ▪ Ain Shams University Student Union Honors (2002) ▪ Ain Shams University Honors (2002) 	
<i>Work Experience</i>	<p>Research Assistant and Teaching Assistant at the Electronics and Communications Engineering Department, Ain Shams University, Cairo, Egypt</p> <p>Research: Microwave Filters</p> <p>Teaching: Instructed courses related to Antennas, Electromagnetic Theory, Satellite Communication, and Microwave Laboratory</p> <p>Soldier in the Egyptian Armed Forces doing my military service</p> <ul style="list-style-type: none"> ▪ Established a wireless group in the battalion ▪ Prepared a simplified manuals for the wireless equipments <p>Research Engineer with the research group at the Faculty of Engineering, Cairo University, under the research project entitled “ Smart Composite Materials For Monitoring Structural Damage ”, which is sponsored by the US-Egypt Science & Technology Joint Fund, and is jointly conducted by Cairo University in Egypt and the University of South Carolina in the USA.</p> <ul style="list-style-type: none"> ▪ Investigated the possible techniques for measuring the structure impedance 	<p>Sep. 2002 till now</p> <p>Oct.2002- Dec.2003</p> <p>Aug. -Oct.2002</p>
<i>Summer Internship</i>	<p>National Bank of Egypt Network Engineering Department.</p> <ul style="list-style-type: none"> ▪ Demonstrated basic network configurations <p>Electronic Research Institute (ERI) Antenna, VLSI Research Groups.</p> <ul style="list-style-type: none"> ▪ Established introductory antenna experiments ▪ Learned basics of VHDL <p>NileSat</p> <ul style="list-style-type: none"> ▪ Recognized the structure of the Nilesat satellite system ▪ Got basics of satellite communication <p>Arab Organization of Industrialization (AOI) Electronics Factory</p> <ul style="list-style-type: none"> ▪ Got overview about the TV production steps 	<p>Aug. 2001</p> <p>July 2001</p> <p>June 2001</p> <p>Sep. 2000</p>

Short Courses	Attend a short course on Microwave Measurements at Electronics Research Institute , the course was mainly on: <ul style="list-style-type: none">▪ Characterization of microwave circuits using vector network analyzer▪ Calibration techniques▪ On wafer probing	Jan. 2004
Projects	TOM3 HEMT Modeling <ul style="list-style-type: none">▪ Implemented TOM3 using Matlab▪ Established an improved model by enhancing the current equation Antenna arrays design tool Ardtool <ul style="list-style-type: none">▪ Created a simple GUI in Matlab for antenna arrays design to enhance the antenna course, I have instructed http://www.mathworks.com/matlabcentral/fileexchange/loadFile.do?objectId=235&objectType=file Simulation & Implementation of a Direct Sequence Spread Spectrum System (Senior Year Graduation Project) <ul style="list-style-type: none">▪ Demonstrated basic spread spectrum concepts (specially code acquisition and tracking)▪ Acquired experience of system design on Matlab, Simulink and TI c6711 DSK BSIM SOI Modeling , Ain Shams Summer Project <ul style="list-style-type: none">▪ Investigated the short channel and SOI effects Calculator based on ATMEL 8051 Microcontroller	July 2004 Dec. 2002 Oct. 2001-July 2002 June-Sep. 2001 May 2001
Computer Skills	<ul style="list-style-type: none">▪ Electromagnetic simulators: HFSS, CST, IE3D, Sonnet, SuperNEC▪ System simulators: Simulink, System View▪ Mathematics packages: Familiar with Mathcad V.7, Matlab V.12 (Symbolic, Digital Signal Processing and Communication tool boxes)▪ Circuit simulators: Orcad Pspise V9.1▪ Programming: Familiar with Visual Basic , C▪ Assembly: 8051 and 8085▪ Others: MS Word, Excel, Power Point	
Languages	Arabic : Native English : Fluent	
Professional Membership	<ul style="list-style-type: none">▪ IEEE student member▪ IEEE – Microwave Theory and Techniques Society▪ Egyptian Syndicate of Engineers (ESE)	
Activities	<ul style="list-style-type: none">▪ Member of the administration committee of the Ain Shams University, Faculty of Engineering official website▪ Member of the organizing committee of the first Egyptian Microwave Engineering Workshop (November 2004)	
Hobbies	<ul style="list-style-type: none">▪ Readings: Psychology, History of Science▪ Sports: Football, Chess	
References	Available upon request	