AMIRA AHMED, MSC.

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EDUCATION	 MSc. Bilkent University (Sep. 2014 – Jan. 2017) UNAM, Material Science and Nanotechnology Department Thesis: "<i>RF-Sputtering of Doped Zinc Oxides Thin Films, The</i> <i>Effect of Low Substrate Heating deposition</i>". GPA: 3.27 BIYIKLI Research Group & AYKUTLU Research Group 	
	• MSc. Nile University (Oct. 2010 – Aug.2013) GPA: 3.48	
	• Bioinformatics Diploma (Sep. 2009 – July. 2010) Information Technology Institute (ITI)-Egypt. Graduation Project Grade: A	
	• BSc. Ain Shams University (Sep.2005- July 2009) Faculty of Science Major: Biophysics Graduation Project: Excellent	
JOBS & Working Experiences	 Research Assistant 1- UNAM , Department of Material Science and Nanotechnology, Bilkent University (Full Time) 	
	 2- (STRC), Youssef Jameel Science and Technology Research Center American University in Cairo (AUC), Cairo, Egypt.(Sep. 2012-Aug. 2013 (Part Time) 	
	 3- (CNT)Center of Nanotechnology, Nile University (NU), Cairo, Egypt. Oct.2010- Oct.2012 (Full Time) 	
	 Teaching Assistant 1- Physics TA at Misr International University (MIU), Egypt, 	
	 Physics (101) - (Part Time) Teaching (Private Tutor) 1- Physics, Libya High School Syllabus 2- Collage Physics 101/Bilkent University 	
	 Pharmaceutical Regulatory Affair Specialist 1- Royal Link Pharma, Cairo, Egypt. (Aug. 2013 – Feb. 2014) 	

HONORS AND AWARDS	 Full Scholarship: PhD. Material Science and Engineering, Sabanci University, Istanbul, Turkey. <u>I declined it</u> Full Scholarship: MSc. Material Science and Nanotechnology. UNAM, Bilkent University, Ankara, Turkey. Full Scholarship: MSc. in Nanotechnology, Nile University (NU) – Egypt Selected Students; 30 out of 200 Full Scholarship: Diploma in Bioinformatics, Information Technology Institute (ITI)-Egypt. – Selected Students; 900 out of 11000
Research Interests	 Micro and Nanofabrication MEMS/NEMS Biosensors/ Miniaturization of health care devices
Research projects	• UNAM, Bilkent University, Ankara Turkey (2014-2016)
	 Development of ZnO- Based Transparent Conducting Metal Oxides for Next Generation Applications on Flexible Substrates – UNAM- Bilkent University.
	2- Dynamic Probing of Strain Dependent Electronic and Ionic Transport Properties in Oxides for Energy and Information Technologies - MISTI-GSF project – MIT joint Project.
	3- Development of Next Generation Ferroelectric Oxide Films Using Ion Assisted DC/RF Sputtering System for Device Applications – Next Gen-Oxides. UNAM- Bilkent University.
	 STRC, American University in Cairo / EGNC SWCNT/a-Si:H interface for transparent conductive electrode applications. (Sep. 2012- August 2013)
	 Faculty of Pharmacy, Cairo University 1- Dextran-Coated- Fe₃O₄ Magnetic Nanoparticle for an Immunoassay for recombinant human myelin protein (rhMBP) (Nov. 2011 – May. 2012)
	 CNT, Nile University, Giza, Egypt 1- Multiplexed detection of HCV & HBV using graphene – FRETbiosensor. (Nov. 2011 – Oct. 2012)
Technical Skills	 Synthesis Preparation of nanoparticles including; metallic, metal oxide and semi-conductors with different structures (e.g: spheres, rods, core-shell) Wet-bench Experience

	Fabrication – Clean Room Processes
	 Sputtering – Vaksis System. (UNAM) Thermal Evaporation – Vakisi System. (UNAM) Rapid Thermal Annealing (RTA) System. (UNAM) Plasma Asher system. (UNAM) Lithography and left-off processes Wet and dry Etching Mask Aligner – EVG620 (UNAM) Plasma Enhanced Chemical Vapor Deposition OXFORD Plasmalab1001. (AUC) Atomic Layer Deposition (ALD) – Cambridge Nanotech Savannah S100. (AUC)
	Characterization
	 Ellipsometer (V-VASE). (UNAM) Time Resolved Fluorescence. (UNAM) Multi-Purpose XRD – X'PERT System. (UNAM) X-Ray Photoelectron Spectroscopy (XPS) - X'PERT System. (UNAM) Stylus Profilometer. (UNAM) Semiconductor Parameter Analyzer & Probe Stations (UNAM) Scanning Electron Microscope (NanoSEM). (UNAM) Scanning Electron Microscope (SEM) - ZEISS - LEO SU-PRA 55. (AUC) UV-Vis-NIR Spectrophotometer – Cary 5000. (UNAM) Atomic Force Microscopy – VECCO - Dimension 3100 AFM. (AUC) Raman Spectroscopy – ENWAVE OPTRONICS ProRaman-L. (AUC) Four Point Probe – Keithley. (AUC)
Training & Workshops	 One week Teaching Module Training in Sabanci University, "Backward Course Design" – Feb. 2017 One week in Dr. Bilge Yildiz's Laboratories –MIT 4th Clean Room workshop (2014) at UNAM, Bilkent University Scanning Electron Microscope (SEM) in Youssef Jameel Science and Technology Research Center (STRC), American University in Cairo (AUC). Fabrication of nanomaterial in NanoTech Labs, Egypt. Transmission Electron Microscope (TEM), Nanotech Egypt.

Manuscripts Under Subscription	 Structural, optical, electrical, and mechanical properties of Ga:ZnO and In:Ga:ZnO thin films grown in room temperature and with substrate heating Structural, optical, electrical, and mechanical properties of In:ZnO thin films grown in room temperature and low Substrate heating
Conferences	 TACT2015 International Thin Films Conference, Nov.15–18, 2015, National Cheng Kung University, Tainan, Taiwan (Oral presentation) Bio-Vision Alexandria 2014, (07th -09th April 2014), Egypt Nanotechnology-based Economy and its Applications", Nanotech Egypt, BAHGAT Group. (21st -23rd June 2011) – (Poster) Bio-Vision Alexandria 2010, (11st -15th April 2010), Egypt 2nd International Conference for Applications of Biotechnology, 17th – 18th October 2009 (MSA), Egypt
LANGUAGES	 Arabic : Native English: ILETS: 6.5 , TOFEL: 92 French: Basic Turkish: Basic
Extracurricular Activities	 "NU100" Judge I was assigned as a technical Judge for NU100 National Entrepreneur-ship Competition.NU100 is an entrepreneurship competition targeting individuals in the age bracket between 21 and 35, who have a technically feasible technological innovation that can be translated into a business. The com- petition is held by Nile University in Partnership with the Middle East Partnership initiative (MEPI) Workshop Organizer Organizing the 5th and 6th Clean Room workshop at UNAM

All References are Available to be furnished upon request