2521 Kingston Pike Apt 2104, Knoxville, TN 37919 - 857-373-9290 - Mootaz.Eldib@siemens.com

EDUCATION

 UNIVERSITY OF ROCHESTER Master of Science in Biomedical Engineering – Biomechanics Concentration Thesis: "Cyclic Stretch of Alveolar Epithelial Cells Alters Cellular Micromechanics" 	ROCHESTER, NY 10/10
 LOUISIANA TECH UNIVERSITY Bachelors of Science in Biomedical Engineering-Electrical Engineering Concentration Minor in biophysics Thesis: "Nano-Structured Thin Film Ultrasonic Transducer for Flooded Member Detection" 	RUSTON, LA 10/08
SELECTED COURSEWORK Biomedical Optics, Biomedical Systems, Digital Signal and Image processing, Radiation Therapy Physics1 & Methods, Anatomy & Physiology, Statistics, Advanced Physics Lab, Statistical Mechanics, Modern Physics, Biomaterials, Biomechanics, Tissue Engineering, and technical Writing.	
WORK EXPERIENCE	
 SIEMENS HEALTHCARE-MOLECULAR IMAGING - MR/PET GROUP Engineering Intern/Co-op Evaluated the attenuation caused by MR coils and accessories as a part of the Hardware Attenuation (MR/PET project Developed image processing programs to analyze PET images Planned, performed and documented System Integration Tests for the MR/PET scanner 	KNOXVILLE, TN 3/11 – Present Correction group for the
 UNIVERSITY OF ROCHESTER - DEAN LABORATORY Graduate Research Assistant Designed small animal ventilators and control devices Developed image processing programs with graphical user interface (GUI) in MATLAB Studied the rheological and mechanical properties of biological tissues 	ROCHESTER, NY 9/08 – 3/11
 BIOMEDICAL ENGINEERING DEPARTMENT Teaching Assistant for Biomedical Signals and Systems (Junior level course) Created homework solutions for analytical and computational problems Held weekly office hours to answer student's questions 	ROCHESTER, NY 1/09– 7/09
 IMTEC IMAGING, A 3M COMPANY Engineering Intern Wrote, updated, and verified work instructions and a training manual for the manufacturing group Constructed various sub-assembly procedures for CBCT x-ray scanner Updated engineering design drawings using AutoCAD 	ARDMORE, OK 5/07 – 9/07
 NORTHEASTERN UNIVERSITY – PHYSICS DEPARTMENT – LASER SPECTROSCOPY LAB Research Assistant Studied DNA-protein interactions using optical tweezers Aligned the optical components of the optical tweezers for proper data collection 	BOSTON, MA 5/06 – 8/06
UNIVERSITY OF TEXAS AT BROWNSVILLE – PHYSICS DEPARTMENT Research Assistant • Wrote programs in C++ to solve partial differential equations related to statistical mechanics	BROWNSVILLE, TX 8/04 – 5/06
QUALIFICATIONS AND SKILLS	
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- Software skills: MATLAB, Mathematica, IDL, LabVIEW, PSpice, Quality Center, Adobe Photoshop, Adobe Acrobat, MS Office, Windows, Mac OS, and Linux
- Hardware skills: oscilloscopes, voltmeters, function generators, power sources, and ultrasound transducers

PUBLICATIONS AND PRESENTATIONS

- Mootaz Eldib and David Dean. Cyclic stretch of alveolar epithelial cells alters cytoskeletal micromechanics. *Biotechnology and Bioengineering*, **108**: 446–453 (2011).
- Leila Shorki, Boriana Marintcheva, Mootaz Eldib, Andreas Hanke, Charles C. Richardson, and Mark C. Williams. Kinetics and Thermodynamics of Salt Dependent T7 Gene 2.5 protein binding to Single- and Double-Stranded DNA. *Nucleic Acids Research* **36**: 5668-5677 (2008).