

ALAA ALSAYED

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EDUCATION

Bridgeport University, Bridgeport, CT
M.S, Biomedical Engineering program, 2014
GPA 3.78/4.0

King Abdul Aziz University, Jeddah, Saudi Arabia
B.S, Biochemistry, 2010
GPA 4.37/5.0

EXPERIENCE

Integrative Materials Discovery (IMD)

Intern research assistant

January 2015
West Haven, United State

Dr. Xiao Research Group - <http://chemistry-hpc.newhaven.edu/people.html>

- Worked In Laboratory for integrative Materials Discovery (IMD) as an intern research assistant
- Assisted the lab researchers to perform chemical synthesis of biomaterials for purpose of drug delivery

Medical Laboratory Assistance & Reception Laboratory

King Fahad General Hospital

March 2010 - May 2010
Jeddah, Saudi Arabia

- Collected samples and passed profile on the machine Barcode, which reads the information about the patient and send samples of Barcode to differed sections of lab
- Separated samples by using Centrifuge and organized each according to the color cover of the tube
- Pulled blood in the female phlebotomy section

CONFERENCES

- SPIE NanoScience + Engineering, August 2014
- The First Annual Laboratory Day & Laboratory Methods Validation, April 2008
- Workshop Inauguration of The Center Of Excellence For Osteoporosis Research, November 2007
- Hematology Update Symposium, November 2007

COURSE PROJECTS

Conductive A Spiral DNA Origami Structure To Detecting Nanotoxicity

August 2014 - December 2014
Bridgeport, CT

Biomedical Engineering Department

This proposed thesis analyzes a nano-scale DNA origami structure a spiral antenna, and a developed model of a conductive coating of an origami structure in order to

- Demonstrate how to make DNA origami conductive
- Detect and tract the toxicity levels of the nanoparticles in the human body, an antenna designed DNA origami must be used to locate the toxic NPs

Hypothyroidism& levothyroxine patch

January 2013 - May 2013
Bridgeport,CT

Biomedical Engineering Department

This project illustrates that levothyroxine patch uses to treat under-active thyroid, which is also called hypothyroidism. Since the thyroid gland doesn't get an inadequate amount of iodine, it leads to produce little amount of thyroid hormones that affect many parts of the body, causing hypothyroidism.

- Used the patch to treat under-active thyroid at the same way of other thyroid replacement hormones
- Used a management tool to measure the normal level of the thyroid
- Designed the patch to penetrate through patient skin

Segmentation of magnetic Resonance stroke Images by using Morphological segmentation method August 2013 -Nov

Alaa Alsayed

Biomedical Engineering Department

Bridgeport, CT

This project presents stroke detection by image processing procedure in several types of strokes. In this procedure we use MATLAB digital image operation software to evaluate MRI image of the brain

- Analyzed the images which had different types of strokes related to three patients
- Used the Segmentation that was the main method in case of stroke
- Applied two types of segmentation that affected different regions of stroke in the brain

ACTIVITIES AND VOLUNTEERISM

Us to US, The Saudi Arabian Cultural Mission to the United States organization volunteer, 2015

Jeddah Flood team volunteer, 2009 - 2011

CERTIFICATIONS

New Haven Sponsor Hospital Program, The American Heart Association BLS for Healthcare Providers (CPR and AED) Program 2015

Sacred Heart University, Certificate Of Appreciation 2014

The International Society For Optics And Photonics, Spie optics + Photonics 2014

King Abdulaziz University Hospital, The First Annual Laboratory Day 2008

King Abdulaziz University Center Of Excellence For Osteoporosis Research, Workshop Inauguration Of The Center Of Excellence For Osteoporosis Rsearch 2008

King Abdulaziz University Hospital & Oncolog Center, Certificate Of Attandance 2007

SKILLS

- Language: Fluent in Both English and Arabic
- Experimental Skills: column chromatography, thin layer chromatography, nuclear magnetic resonance spectroscopy, mass spectroscopy, gas chromatography, rota vapor, ultra-violet spectroscopy.
- Computer skills: Matlab, Cadnano, rasmol, java, microsoft office.

AWARDS

Saudi Arabia Culture Mission To The US Scholarship For Full Academics 2010

English language institute at University of Tennessee for honor of honest 2011

University of Bridgeport for conferred honors pertaining to master of science degree 2014

Saudi Arabia Culture Mission for Dean's reward 2014