

Mohammad Ali Al-Ameen

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Objective

To attain an environment that would invest the knowledge and abilities I learned from school, work, and volunteer experiences in order to improve my community, company, and therefore myself.

Education

University of Michigan-Dearborn

Degree: Bachelor of Science in Engineering
Major: Bioengineering
Minor: History
GPA: 3.4

Dearborn, MI.

January 2010 - December 2014

Henry Ford Community College

Dual Enrollment with high school

Dearborn, MI.

2009-2010

Awards

- The University of Michigan-Dearborn Difference Maker Award of 2014-2015
- The University of Michigan-Dearborn Undergraduate Research Fellowship for the Summer of 2013
- Michigan Merit Award recipient.

Work Experience

University of Michigan-Dearborn Biomaterials Research Laboratory Assistant

- Researching methods for using materials into human health benefit, particularly in cancer treatment.
- Developing of a highly sensitive hydrogel polymer material to function as a cancer marker and detector.
- Cell culturing and maintenance.
- Managing and maintaining the safety of the Bioengineering Laboratory at the University of Michigan – Dearborn.

Dearborn, MI

January 2012-Present

NanoMAG, LLC. Intern

- Researching and studying the effects of metallic alloys on the human body.
- Running various tests and experiments on different composition of metallic alloys for human body implantation.
- Cutting, milling, and manufacturing of Magnesium alloy plates.

Livonia, MI

September 2013-January 2014

Biology Laboratory Assistant

- Maintain and set-up laboratory equipment, materials and chemicals for the entire Biology laboratory courses offered.
- Keep a clean and healthy laboratory environments, making sure that hazardous waste are not exposed and sterilized according to the protocols.
- Manage Chemical and equipment inventory in the whole Natural Science Department.
- Test and maintain laboratory instruments and equipment.

Dearborn, MI

May 2010-April 2012

Self-Employed Cellphones Technician

January 2008-February 2010

- Troubleshoot and fix various cellphones, PDAs, notebooks especially apple products.
- Install programs, applications, and important updates.

Publications

- Yang Wu, Mohammad Ali Al-Ameen, Gargi Ghosh. “Integrated Effects of Matrix Mechanics and Vascular Endothelial Growth Factor (VEGF) on Capillary Sprouting”. *Annals of Biomedical Engineering*. February 2014.
- Mohammad Ali Al-Ameen, Gargi Ghosh. “Sensitive Quantification of Vascular Endothelial Growth Factor(VEGF) Using Porosity Induced Hydrogel Microspheres”. *Biosensors and Bioelectronics*. 10 May 2013. 49(2013)105–110.

Poster Presentations

- Fabrication and characterization of shape coded hydrogel micro-particles for biomolecule detection – Seattle,WA September 2013.
- Sensitive quantification of vascular endothelial growth factor(VEGF) using porosity induced hydrogel microspheres – Seattle, WA September 2013.
- Development of porous hydrogel microparticles for sensitive analysis of biomolecules – Chicago, IL March 2013. Flint, MI May 2013.
- Development of porous hydrogel microparticles for sensitive analysis of cancer markers – Atlanta,GA October 2012

Skills

- Software: CATIA, AutoCAD, C++ programming, Zeiss Axiovision, Matlab. ImageJ,
- Bilingual English and Arabic.

Extracurricular Activities

- Founder and current President of the Biomedical Engineering Society (BMES)- University of Michigan Dearborn Chapter.
- Co-founder of the Engineering Organizations Council and the Pre-health Leadership Council.
- Previous volunteer at Oakwood Hospitals and Medical Center in Dearborn.
- Active member as a volunteer and speaker in a community non-profit organization for youth development called Movement for Outreach Volunteerism and Education (M.O.V.E).
- Active Member of various professional organizations and councils on campus like Student Philanthropy Council, Student Leadership Council, Cross Country Club, Pre-Professional Health Society, and others at the University of Michigan-Dearborn.
- National Honors Society member.