

## MOHANNED EL NATOUR

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### EDUCATION

NORTHWESTERN UNIVERSITY, Evanston, IL

B.S. (2009) Biomedical Engineering with concentration in Transport Processes and Tissue Engineering

### WORK EXPERIENCE

US ARMY

JOINT FIRES OBSERVER (AIRBORNE)

2017-2018

- Team leader deployed to Helmand Province, Afghanistan (6 months), where my team planned and executed fire support for 100+ combat patrols, Quick Response Force missions, and contributed to base defense operations with infantry and aviation elements.
- Integrated and trained new soldiers into the unit- mentoring them into leaders and technical experts who could confidently accomplish their jobs in a deployed environment.

SPECIAL OPERATION COMBAT MEDIC (AIRBORNE)

2014-2017

- Improved curriculum and updated medical protocols for all Special Operations through integration of modern research data and teaching methods of combat trauma protocol.
- Aided operations across Special Operations groups with Medical Support of Hazardous Tasks and Duties (Demolition, Live Fires, Airborne Operations, Prolonged Field Care)

NU PACKMAN ENGINEERING GROUP – *Research Technician*

2009–2013

CATHETER PROJECT

- Developed an imaging technique for lithifying biofilms and sediments at Argonne National Laboratories. Characterized a 3D tomographic representation of biofilm using synchrotron for x-ray microtomography (XMT), bulk and microscale x-ray diffraction (XRD) analysis, x-ray absorption spectroscopy (XAS/XANES/EXAFS) with goals to extrapolate bulk chemical analysis of sediment to specific in-situ cores and analysis of intact core samples and macroscale transport processes.

NU CENTER FOR INNOVATION IN GLOBAL HEALTH TECHNOLOGIES – *Research Assistant*

2009-2010

- Researched and developed to help develop a rapid test for diagnosis of acute pediatric HIV using an ultra-sensitive p24 lateral flow-based ELISA assay utilizing carbon black nanoparticles with the Kelso Research Group.
- Specifically worked on a technique for filtering blood plasma from whole blood samples in a developing lab and austere environment.

UIC SCHOOL OF PUBLIC HEALTH – *Research Assistant Epidemiology Department*

Summers 2007, 2008

- Surveyed literature for a primary pilot study of acculturation and diabetes trends in immigrant populations in the US

### AWARDS AND HONORS

- Presentations given at Northwestern Synchrotron Research Group Annual Meeting, Simon Foundation for Continence Conference, and WUSTL Midwest Pathogenesis Conference
- Finalist for Frey Prize Senior Design Project
- Northwestern University Dean's List
- Provisional Patent: "Devices and Methods for Filtering Blood Plasma" (2009)
- Military awards and technical certificates provided upon request

### SKILLS

- Proficient in Microsoft Office, Windows, Mac OS, and several Linux iterations
- Basic programming in MATLAB, IDL, Java, C++, assembly language, HTML/CSS, WordPress
- Proficient in prototyping and machine shop (mill, lathe, shop tools, CAD/Corel design, laser-smith etching in various materials)