AMIRA IDRIS

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OBJECTIVE

Seeking social impact opportunity in product research, design, and development of innovative technologies

EDUCATION

University of Delaware **Newark, DE**
M.S., Entrepreneurship & Design, GPA: 3.87 *Expected: May 2016*
B.S., Biomedical Engineering – Minor in Bioelectrical & Biomechanical Engineering; Dean's List *May 2015*

RESEARCH EXPERIENCE

University of Delaware, Biological Science **Newark, DE**
Student Researcher *12/2014- Present*

- Conduct research on the effects of vibration on osteoblastic bone cells, with plans to implement results and data in medical device for amputees.
- Awarded $4,250 in grants to design and develop medical device for amputees, to increase tissue health of residual limb.
- Patent pending on vibrating therapeutic apparel product medical device.

WORK EXPEREINCE

University of Delaware, Biomedical Engineering **Newark, DE**
Teacher Assistant, Cell & Tissue Engineering *9/2015- Present*

- Tasked with preparing cell culture lab work for students, which included teaching cell culture techniques, standard test methods, qualitative and quantitative analysis

University of Delaware, College of Engineering **Newark, DE**
Interdisciplinary Engineering Senior Design Project *9/2014 – 5/2015*

- Awarded $3500 in Grants from NSF Innovation Corps (I-Corps) & First Step Health Program to design and develop MRI-compatible dynamometer for children with cerebral palsy (CP).
- Developed system control using Arduino hardware and software; conducted design metric evaluations and benchtop testing.

University of Delaware, Biomedical Engineering **Newark, DE**
Teacher Assistant, Junior Design *10/2014 – 5/2015*

- Oversaw laboratory activities and conducted hardware tool training.
- Conducted workshops that taught students total knee arthroplasty procedure using orthopedic surgical tools.

University of Delaware, The Perry Initiative **Newark, DE /San Francisco, CA**
Summer Scholar Internship/ Volunteer *6/2014 – present*

- Worked on curriculum development, evaluation, and program implementation related to engineering education at the K12 and college levels.
- Designed and develop five hands-on arthroscopic modules for K12, college, and medical school students.
- Shadowed orthopedic surgeons in the operating room.

Independence Prosthetic-Orthotic INC **Newark, DE**
Clinical Intern *1/2014- 2/2014*

- Apprenticed under trained orthotic and prosthetic practitioners, learning casting, molding, and other fabrication techniques.
- Completed 160 plus clinical hours discovering and addressing clinical unmet needs.

LEADERSHIP EXPERIENCE

University of Delaware, Orthopedic & Prosthetic Club **Newark, DE**
Co-Founder *10/2013 – 5/2015*

- Awarded $500 in grant to develop a simple, inexpensive biking prosthetic to benefit amputee who enjoy bicycling.
- Organized design projects for the semester

SKILLS AND OTHER INTRESTS

Technical Skills: User-Centered Design (5 years), Prototyping (8 years), AutoCAD and Inventor (8 years), Solidworks (4 years), Arduino Hacking (1 year); Also familiar with Electronic Textiles and wearable technology

Extracurricular Activities: Paris-Foundation Serving the Homeless (2016); Women's Track & Field Most Valuable Player (2013-2016); Track and Field Scholarship Student Athlete and Captain (2011-2016); School Record Holder in Long and Triple Jump (2011-2016); Finance & Fashion Show Committee Chair (2012-2015); Special Olympics "Pig Skin Pass (2012-2014).