

# COURAGE TSIAGBE

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## EDUCATION

### Biomedical Engineering

SUNY Binghamton University

from - ongoing

GPA

3.2 / 4

## RESEARCH EXPERIENCE

### Machine Learning

June 2015 - Aug 2015

Binghamton University

- Employment of machine learning techniques to discover patterns that help predict future rupture and other risk factors of aneurysms
- Presented at the annual Mc.Nair Research Conference.

### Development of Pain Biosensors

Jan 2014 - June 2015

Binghamton University

- Developed affinity based biosensors to evaluate levels of the two major pain biomarkers, cylooxygenase-2 and inducible nitric oxide synthase via capillary based ELISA
- Presented at the annual Mc.Nair Research Conference.

### Filtration of Nanoparticles

June 2013 - May 2014

Binghamton University

- NIH Bridges Summer Research Program at SUNY Binghamton. I participated in the filtration and separation of nanoparticles and bacteria using porous nano structured poly (amic acid) membrane with 99% efficiency

### Disability Map for Purchase College

June 2012 - Aug 2012

Purchase College, NY

Short summary of your work

- NIH Bridges Summer Research Program at SUNY Purchase College.
- Designed and developed an web application to help people with and without disabilities navigate the campus easily

## LEADERSHIP EXPERIENCE

### President of Academic Affairs

#### Hillside Village Council

Aug 2015 - ongoing

SUNY Binghamton University

- Organize, advertise, and execute interesting and engaging academic events that are informative and impact those in the community.
- Oversee 3 Regions AVPs to ensure they carry out their responsibilities as set forth by Hillside Council Constitution

### Engineering Club President

#### SUNY Westchester Community College

Jan 2012 - Jan 2013

Valhalla, NY

- Effectively managed a team of 50 club members leading to a complete makeover of an almost nonexistent club. Also coordinated competitions and projects from start to finish within a timely schedule
- Established vital relationships with other clubs
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### Manager, Binghamton University Intramural Soccer Team.

#### Student Association

Sept 2015 - Oct 2015

Binghamton University

- Strategically managed a team of 20 members effectively to the semifinals out of a total of 26 teams

### Orientation Leader & Peer Advisor

#### SUNY Westchester Community College

June 2011 - Feb 2012

Valhalla, NY

- Managed the organization for the graduation ceremony for the class of 2012 while helping new students adjust to campus life

## TECHNICAL STRENGTHS

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### + Software

R, JAVA, html, C++, MATLAB, PTC Creo, Auto Cad, Weka, MS Office, Adobe, Wordpress, android application development, android studio.

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### + Hardware

Oscilloscope, Light Spectroscopy, PowerLab A/D convertor, Chart 5,

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## COURSES

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Circuits and Signals, Bio-imaging

Engineering Statics and Dynamics

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Bioinformatics, Human physiology

Capstone Design, Android nano degree

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## VOLUNTEER

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### Instrutor

Boys and Girls Club

📅 Jan 2010 - May 2010

Taught healthy living through nutrition and sports to 20 children

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### Boy Scouts Adult Leader

Boy Scouts of America

📅 Apr 2010 - Jan 2015

Accompanied scouts during activities such as hiking, renovation of community centers, camping and during general meetings.

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### Food Kitchen

Holy Family Parish

📅 Apr 2010 - ongoing

Distributed food to the soup kithcen

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## LEADERSHIP EXPERIENCE

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### Team Leader- Capstone Design

Binghamton University

📅 Sept 2015 - May 2016 📍 Binghamton, NY

- Design of portable, quick and affordable quantification of bacteria in water using mobile phones.
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## ACHIEVEMENTS

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### Parris Foundation Scholarship

For my study on the development on pain biosensors

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### Max Kahn Memorial Science & Technology Scholarship

For students who demonstrates academic achievement

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### Rice Family Foundation Technology Scholarship

For students in computer-related curriculum and demonstrate academic achievement

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### National Honor Society Member

Selection is based on four criteria: scholarship, leadership, service, character.

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### Honor Scholar Award

Omega Psi Phi Fraternity- For academic excellence and community service

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### McNair Scholar

Performed research

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