Nuela Chidubem Enebechi

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Education

Doctor of Philosophy in **Industrial Engineering emphasis in Computation**   May 2025
Purdue University, West Lafayette, Indiana

Bachelor of Science in **Computer Science emphasis in Mathematics,**   May 2018
Minnesota State University Moorhead (MSUM), Moorhead, MN

Computer Skills/Certifications

- Programming Languages: Python, HTML, C++, C#, SQL, Racket, Maple, R Programming, LabVIEW
- Certificate of Proficiency in Information System Management

Relevant Experience

Research Assistant, Purdue Polytechnic Purdue University, West Lafayette, IN   August 2019 – Present
- Developed organization skills by carrying out research to help the younger generation explore career opportunities in Science Technology Engineering Mathematics (STEM) fields.

Lead Counselor, Minority Engineering Program, Purdue University, West Lafayette, IN   May 2019 – August 2019
- Assisted in the execution of program elements (e.g. courses, projects, social activities) for camp participants.
- Coordinated documentation of camp experiences while interacting with participants during scheduled activities.

Research Assistant, Nuclear Engineering Department, Purdue University, West Lafayette, IN August 2018 – May 2019
- Conducting literature reviews while collecting and analyzing data on materials for nuclear energy systems.
- Work with high level machines and equipment to carry out tensile testing of nuclear material.

System Analyst Internship, Border States Electric, Fargo, North Dakota   May 2018 – August 2018
- Worked in a team to develop Ecommerce Upgrade, Project Information Management (PIM) strategies
- Maintained programs that are Java, SQL and Microsoft Application based.
- Implemented Scrum Agile methodologies in business technology projects.

Student Researcher, Biology, Computer Science and Physics Departments, MSUM   October 2016 – May 2018
- Demonstrated problem solving skills while collaborating with Biology and Physics Departments to provide technical assistance in LabVIEW to monitor heartbeats of swimming fish.
- Enhanced analytical skills while evaluating data, identifying patterns, and carrying out additional tests.

Summer Undergraduate Research Fellowship, Purdue University, West Lafayette, IN   May 2017 – August 2017
- Collaborated with faculty and graduate student mentors to develop and follow through with experiments related to nanotechnology and material science.
- Analyzed data through computer simulations to model the unit cells of a PXCM.

Security Architect Internship, Blue Cross Blue Shield (BCBS), Fargo, North Dakota   June 2016 – August 2016
- Provided topnotch security consulting and troubleshooting to resolve incidents in departments.
- Tested for bugs and vulnerabilities, with the goal of avoiding malicious attacks and malfunctions of malware.

Work Experience

Math Tutor, Math Department, MSUM   August 2016 – May 2017
- Increase comprehension an conceptual subject matter for students by tutoring high level math classes such as calculus, discrete math, computer calculus, etc.

Physics Teaching Assistant, Physics Department, MSUM   August 2016 – May 2018
- Attained organizational skills by preparing study materials ahead of time.
- Acquired verbal, listening, and written communications skills while working with faculty members and students.

Leadership/Volunteer

National Society of Black Engineers, Peer Advisor, Dragon Mentor, Dragon Ambassador, TedX Fargo, Student Orientation Councilor, Celebration of Nations, African Student Union, New Development Leadership Institute.

Publications

- Modelling of Phase Transforming Cellular Materials (PXCM)   August 2017
  Purdue University, Published on nanoHUB: https://nanohub.org/resources/26939