NINA KANONYE

337-400-6860 |kanonyenina@yahoo.com | https://www.linkedin.com/in/nina-kanonye

EDUCATION

University of Louisiana | Lafayette, Louisiana Graduating **May 2026**
Bachelor of Science in Mechanical Engineering, Minor in Math GPA: 3.53

PROFESSIONAL EXPERIENCE

GE Appliances | Louisville, Kentucky **Aug 2023 - December**

Advanced Development Sub-washer co-op (Product Design Engineer)

- Learned manufacturing techniques like injection molding, plastic part design, sheet metal fabrication in a production line
- Conducted failure and quality assurance analysis, including suspension test fixture assessments using dynamometers, as well as out of balance tests to evaluate washer load balance performance
- Designed 3D models like a sub-washer cradle and conducted Finite Element Analysis using **Creo Elements**

Occidental Petroleum | Houston, Tx

Net Zero Ops Facilities Engineering Intern and co-op - Delaware Basin **May 2024 - Present**

- Directed vendor-led preventative maintenance and training on Flares and VRUs, ensuring compliance with QuadOA/OB/OC and EPA Regulations, thereby reducing CO2e and CH4 emissions and reaching 98% DRE in flares.
- Developed and proposed 2025 Safety Flare Reduction Roadmap for the Delaware Basin to reduce flaring and increase VRU reliability across 700+ facilities and aligning with OXY's Net Zero Goals.
- Conducted economic analysis on innovative alternatives to safety flaring such as tankless conversion and facility consolidation considering both technical feasibility and economic viability.

Gulf of Mexico Regulatory Intern (Data Analyst) **May 2023 - Aug 2023**

- Created a surveillance tool that automatically shows average review times for various permits and identifies previous Oxy entity leases with outstanding decommissioning liabilities
- Automated data collecting process from BSEE by creating self-sustaining web crawlers that stored data in a **SQL** database
- Analyzed collected data, identified patterns and trends and enabled real-time visualization through **Power BI** and **Spotfire** dashboards thereby contributing to a 25% reduction in potential financial risks associated with decommissioning

University of Louisiana Lafayette Research Assistant | Lafayette, Louisiana

Intelligent Manufacturing and Systems Lab **Present**

- Exploring novel 3-D printing technologies, in-situ experimental characterization, automatic control and AI technologies to accelerate advanced materials design and manufacturing process.

Musculoskeletal Mechanics and Multiscale Materials/Biomechanics (4M) Lab **Aug 2021 - Dec 2022**

- Investigated the effect of aging and osteoporosis on bone qualities (Osteoporotic fracture risk) and properties by applying 3D softwares for bone modeling and assessment of hip fracture

PROJECTS

Battlebots Metal Mayhem - University of Louisiana Lafayette Ragebot. **March 2023**

- Competed in Battlebots Competition with a 12lbs four wheel-drive invertible robot armed with an undercutting disc.

Portfolio Website (scan QR code for link) **Fall 2023**

- Created a portfolio website and server using **Flask, CSS, HTML, Python,** and **JS** to showcase engineering designs

GEA Co-op Design Challenge | Oddly Shaped Articles Wash (Team of 5 - Patent phase) **Fall 2023**

- Designed and patented a detachable inner basket constraint for washing shoes in GEA top load washers.

University of Louisiana | Automated Machine Learning Based System for 3D Slicing **Fall 2022**

- Developed a machine learning-based system using **Roboflow** to automate the process of 3D slicing and segmentation of femur bones reducing time spent by 120%

Cleco Alternative Energy Center | Concentrated Solar-Thermal Power Industry **Summer 2022**

- Coordinated and installed parabolic trough solar collectors and fiber reinforced rim stiffener to guarantee structural safety

PATENT AND LEADERSHIP

"A footwear cleaning basket for a washing machine appliance" - pending patent approval

National International Committee Chair (NSBE) **Present**

Region 5 International Zone Chair (NSBE) **May 2023 - May 2024**