NINA KANONYE

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EDUCATION

University of Louisiana | Lafayette, Louisiana Graduating **December 2025**
Bachelor of Science in Mechanical Engineering, Minor in Math GPA: 3.6

PROFESSIONAL EXPERIENCE

GE Appliances | Louisville, Kentucky **Aug 2023 - Present**
Advanced Development Sub-washer co-op (Product Design Engineer)

- Analyzing manufacturing and machining techniques like injection molding, plastic part design, sheet metal fabrication and die forming within a production line
- Conducting 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
- Designing 3D models like a sub-washer cradle and conducting Finite Element Analysis using **Creo Elements**

Occidental Petroleum | The Woodlands, Tx **May 2023 - Aug 2023**
Gulf of Mexico Regulatory Intern (Data Analyst)

- Automated BSEE data collecting process using Selenium Python Library to create self-sustaining web crawlers and stored data in **SQL** database, thereby ensuring data accuracy by 97%
- 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
- Developed project plans and procedure documents with a stakeholder-approved timeframe to ensure projects were completed on schedule

Best Buy | Lafayette, Louisiana **May 2022 - Jan 2023**
Product Flow

- Led shipping and receiving operations by processing an average of 150 incoming and outgoing shipments
- Collaborated with cross-functional teams to improve the product flow process, reducing order fulfillment time by 15%

University of Louisiana Lafayette Biomechanics Lab | Lafayette, Louisiana **Aug 2021 - Dec 2022**
Research Assistant

- Investigated the effect of aging and osteoporosis on bone qualities and properties by applying 3D softwares for bone modeling and assessment of hip fracture
- Utilized a **3D slicer** to separate more than 200 femur CT scans, converted them into STL files for analysis

PROJECTS AND LEADERSHIP

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 (Prototyping phase) **Fall 2023**

- Creating illustrations and rapid prototypes to test design hypothesis

NSBE R5 International Zone Chair **Present**

- Spearheading the establishment and sustainability of new chapters and initiatives to increase and retain membership
- Collaborating with chapter leads to bridge gaps and allocate resources international students and zones

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

- Partnered with student researcher to develop a machine learning-based system using **Roboflow** to generate a model and 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**

- Installed the largest University owned parabolic trough solar collectors in the south-west region for renewable energy
- Coordinated and led the installation of fiber reinforced rim stiffener to guarantee structural safety

TECHNICAL SKILLS

Programming Languages: Python
Frameworks and Libraries: Pandas, Selenium, Numpy, Roboflow, Matplotlib, Flask, ReactJS
Misc: GIT, Roboflow, Spotfire, VScode, Web Development, Solidworks, SQL, Power BI, CAD, PTC Creo, VBA, Rapid Prototyping, Project management, Soldering, Plastic part design, FEA, Windchill