Daniel Olapade

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Education

University of Manitoba — Winnipeg, MB
Bachelor of Science in Biosystems Engineering — *Sept. 2018 – June 2024*

Experience

Undergraduate Research Assistant — Jan. 2018 – June 2024
Bio Materials Lab - University of Manitoba — *Winnipeg, MB*

- Collaborated with a multidisciplinary team to assess biosensor sensitivity for detecting bacteria in open wounds
- Investigated the response time of biosensor to various bacterial strains, including *P. aeruginosa*, *E. coli*, and MRSA
- Designed *ex vivo* experimental setups using CAD software to simulate wound environments for biosensor testing
- Managed project components, including testing protocols, quality control, timelines, and technical documentation

Engineering Internship (R&D) — Sep. 2022 – Dec. 2022
Agnora Inc. — *Collingwood, ON*

- Designed and prototyped a gravity filtration system for a glass Dip-Tech printer with a 0.5-micron filtration capacity, achieving potential waste and operational cost savings of up to $10,000 CAD annually
- Collaborated with production teams to develop glass tempering recipes, resulting in reduced roller wave distortions
- Conducted ball drop tests on laminated security glass to evaluate performance in diverse climate conditions
- Prepared CAD models and technical drawings to support product design and modification requests

Engineering Co-op (Safety Compliance) — May 2022 – Aug. 2022
Linde Canada — *Winnipeg, MB*

- Developed an improved process for gas cylinder requalification, achieving 100% compliance with safety regulations
- Analyzed cylinder inspection data to identify failure trends and proposed solutions for targeted maintenance
- Implemented a digital database to track maintenance records, improving quality control accuracy
- Supported Linde's continuous improvement initiatives, focusing on increasing production and minimizing downtime

Projects

Instrumentation System | *Arduino, SolidWorks, Sensors, Data acquisition system (DAQ)* — 2024

- Developed a DAQ system to monitor Manitoba's BAJA performance metrics in real-time during competitions
- Implemented wireless four-wheel drive activation, improving driver control and responsiveness

Interactive Stem Exhibit | *Python, Auto-desk Inventor, Actuators, MS office Suite* — 2024

- Designed and built an interactive exhibit on aviation fuel for the Royal Aviation Museum of Western Canada
- Integrated microcontrollers and actuators to create dynamic motion that demonstrated aviation fuel energy density
- Applied Piezoelectric Transducers to create a fog effect simulating carbon emissions from aviation fuel
- Achieved approximately 85% satisfaction rating from museum attendees during exhibit viewing

Skills

Technical Skills: CAD (SolidWorks, AutoCAD, Autodesk Inventor), ImageJ, Tableau, Microsoft Office Suite, Trello

Soft Skills: Communication, Team Collaboration, Project management, Quality Control, Client Relations

Languages: Python, SQL, JavaScript, HTML/CSS

Certifications

Driver's License, First Aid and CPR, Engineer in Training Designation (EIT)