

# Daniel Olapade

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## EDUCATION

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### Bachelor of Science in Biosystems Engineering

University of Manitoba

Sept. 2018 – June 2024

Winnipeg, MB

## EXPERIENCE

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### Explosion Protection System Technician

Fike Canada

Nov. 2024 – Present

Burlington, ON

- Commission, inspect, and rebuild explosion protection systems to ensure safety across various client sites in Canada
- Conduct explosion simulations using sensors, analyzers and control unit to assess system performance and reliability
- Provide training and technical guidance to clients on the operation and maintenance of explosion protection systems
- Maintain detailed technical documentation, including service reports, troubleshooting logs, and safety records

### Undergraduate Research Assistant

Biomaterials Lab - University of Manitoba

Jan. 2024 – June 2024

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)

Agnora Inc.

Sep. 2022 – Dec. 2022

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)

Linde Canada

May 2022 – Aug. 2022

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

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### 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

### 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, actuators, and transducers to simulate carbon emissions and demonstrate energy density
- Achieved approximately 85% satisfaction rating from museum attendees during exhibit viewing

## SKILLS

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**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

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Valid Driver's License, First Aid/CPR Certification, Engineer in Training Designation (EIT)