James Onajobi

Mechatronics Engineering Student

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Education

Memorial University of Newfoundland (MUN), St. John's, NL   **2023 - Present**
Bachelor of Engineering Co-op Program
Term 4 (second year) Mechatronics Engineering, Class of 2028

Work Experience

Rural Outreach Student   **Jan 2025 – April 2025**
Rural Outreach - Faculty of Engineering and Applied Science, St. John's, NL
- Communicated with rural community clients and developed an understanding of their real-world problems, constraints, and resources
- Developed solutions to real-world problems with supervision that's then modelled in AutoCAD and SketchUp for client feedback and review
- Created deliverables like consultant request documents to help rural community clients have better presentation content for councils
- Updated GIS maps with more accurate reflections of rural communities to help improve the 911 service response time
- Built websites using Squarespace and WordPress to help rural community clients improve or create their sites

Volunteer Experience

Project Intern   **May 2022 – Aug 2022**
Built Right Solutions, Nigeria
- Maintained daily inventories to help track the use of building materials during construction, improving construction estimation and planning
- Conducted site setup by inspecting equipment to confirm all equipment was present and ready, limiting breakdown on site

Engineering Projects

High-Pressure Air Engine   **Sept 2024 – Dec 2024**
Production Technology (MUN), St. John's, NL
- Fabricated parts of the engine using the lathe and mill machine
- Collaborative teamwork with delegation of needed tasks
- Read the assembly of the engine from the given technical drawing

Portfolio Website   **Sept 2022 – April 2023**
AltSchool Africa, Nigeria
- Built a fully responsive website using React, JavaScript, CSS and HTML, improving cross-device load times and user engagement
- Integrated the GitHub API to manage my repositories and display projects on the website, thus providing up-to-date site information
- Designed a dedicated 404 page to reduce site crashes and direct users to the right page

Skills

Software Tools: SolidWorks, Fusion 360, SketchUp, AutoCAD, QGIS, MS Office Suite
Programming Languages: Python, C++, JavaScript, React, HTML
Other: Emergency First Aid with CPR, WHMIS
Simulation Tools & Hardware: Pspice, Arduino
Familiar with Milling machine and lathe