

Ibrahim AlAkeel

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Objective

Dedicated civil engineering student pursuing a co-op opportunity, with expertise in fluid dynamics, water resources, structural analysis, and project management. Passionate about 3D design and printing. Eager to apply technical skills in a hands-on role to drive innovative engineering solutions.

Education

Bachelors in Civil Engineering

08/2018 – 10/2025

Imam Muhammad ibn Saud Islamic University

Work Experience

3D Modeling & Printing Technician

08/2024 – 12/2024

Khout 3D

- Conducted **maintenance and quality testing** of 3D printers and materials to ensure optimal performance.
- Streamlined workflows by **implementing quality control tests** for printed materials and final products.
- Represented the company at **BIBAN 2024 Exhibition**, showcasing 3D printing solutions and networking with industry professionals.
- Managed **inventory and sales**, tracking supplies and assisting clients with product inquiries.
- Provided **technical support and customer service** for 3D printing operations, troubleshooting hardware/software issues.
- Designed and prototyped **custom tools/parts** using CAD software, ensuring precision and functionality.

Projects

Graduation Project

Semi Flexible Pavements

Developed semi-flexible pavement using waste, and byproducts, featuring cement grout-filled aggregates (25-35% voids) for enhanced durability. The innovative design demonstrated superior load-bearing capacity, temperature/fluid resistance, and sustainability compared to conventional pavements, offering an eco-friendly solution for high-traffic infrastructure.

Personal Projects

Hands-on experience in electronics and embedded systems, including soldering, circuit repair, and custom hardware development. Skilled in creating custom software for hardware integration, home automation solutions, and IoT system integration.

Skills

Structural Analysis | AutoCAD | Concrete & Steel Design | Geotechnical Engineering |
Hydraulics & Hydrology | Surveying & GIS | QGIS | Problem-Solving & Analytical Thinking |
Attention to Detail | Project Management | Prototyping & Functional Design |
Fluids & Water resources