

# Olasunkanmi (Caleb) Alade

**Mechanical Design Engineer | Product Design • Manufacturing • CAD/CAM/CNC**

**Location:** Riyadh, Saudi Arabia

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**Portfolio:** <https://olasunkanmi-caleb.github.io/>

**Nationality:** Nigerian

**Languages:** English (Fluent)

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## Professional Summary

Mechanical Design Engineer with 9+ years of experience across mechanical design, mould inspection, machining, fabrication, and production support in glass manufacturing, defense engineering, and industrial fabrication. Proficient in CAD modeling, CNC programming, 3D printing, reverse engineering, and quality inspection. Demonstrated success in reducing defects, streamlining production processes, and delivering high-precision designs. Adept at cross-functional collaboration, technical documentation, and leading engineering teams. Seeking opportunities within Europe that prioritize innovation, advanced manufacturing, and operational excellence.

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## Core Competencies

- Mechanical Design Engineering
- CAD/CAM/CNC (AutoCAD, SolidWorks, Inventor, Solid Edge, Advance Steel, FastCam, Laser cutting, Plasma Cutting)
- Reverse Engineering & 3D Printing
- Mould Design, Inspection & Maintenance
- Conventional Machining (Lathe, Milling,)
- BOM & PBOM Development
- Project Planning & Coordination

- Preventive & Corrective Maintenance
  - Technical Documentation
  - Team Leadership & Training
  - Process Optimization
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## Professional Experience

### Senior Mould Inspector

**Zoujaj Glass – The National Company for Glass Industries | Riyadh, Saudi Arabia**  
*2024 – Present*

- Participate in designing, procuring, and inspecting moulds for glass container production.
- Operate and maintain lathe and milling machines for high-precision machining.
- Manage mould inventory, tracking use, maintenance, and repairs.
- Generate technical drawings and CNC programs for machining operations.
- Produce 3D-printed prototypes and components for testing and manufacturing.
- Supervise workshop operations, assign tasks, and uphold safety compliance.
- Coordinate procurement of replacement parts and scheduled maintenance activities.

### Team Lead – Mechanical Design Engineer

**Buckler Land Systems | Lekki, Lagos, Nigeria**  
*2023 – 2024*

- Led design projects for defense engineering solutions with focus on accuracy and manufacturability.
- Prepared fabrication drawings, assembly layouts, installation manuals, and detailed BOMs.
- Developed CNC cutting plans improving material utilization and reducing waste.
- Utilized 3D printing for prototyping and functional component validation.
- Guided engineers and technicians to ensure proper design interpretation and execution.
- Designed a Light Tactical Armored Personnel Carrier with complete documentation.

### Mechanical Design Engineer

**Tranos Contracting Limited | Ikeja, Lagos, Nigeria**  
*2022 – 2023*

- Designed industrial enclosures, substations, and structural metalworks ensuring manufacturability.
- Produced GA drawings, shop drawings, fabrication models, and installation documentation.
- Generated BOM and PBOM for procurement planning and cost control.
- Conducted site inspections and supervised project execution stages.

- Performed basic FEA to validate structural integrity.
- Collaborated with QA and production teams, reducing project turnaround by 20%.

## **Mould Maintenance Technician**

### **Beta Glass Plc (Frigoglass Group) | Agbara, Ogun, Nigeria**

*2008 – 2022*

- Prepared, repaired, and maintained mould components including blank moulds, blow moulds, neck rings, and plungers.
  - Machined components and fabricated spares using conventional workshop tools.
  - Conducted reverse engineering and 3D printing for prototype development and part replacements.
  - Executed preventive and corrective maintenance for moulds and workshop machinery.
  - Ensured repairs matched specifications and quality requirements.
  - Supported production teams to reduce downtime and sustain product quality.
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## **Education**

- **Higher National Diploma (HND), Mechanical Engineering**  
*Yaba College of Technology, Lagos, Nigeria | 2016 – 2018*
  - **National Diploma (ND), Mechanical Engineering**  
*Yaba College of Technology, Yaba | 2010 – 2014*
  - **NABTEB – Mechanical Engineering**  
*Federal Science and Technology College, Yaba | 2003 – 2006*
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## **Professional Certifications**

- Grade Test I, II, III in General Fitting & Metal Machining – Federal Ministry of Labour
- Project Management Professional – AAPM
- UK HSE Level 1, 2, 3 – British International Safety Organization
- Lean Six Sigma (White Belt) – MF Treinamentos
- Diploma in Project Management – CIPM
- Diploma in Facility Management – CICPFM
- Certificate in Basic First Aid/CPR – Novelle Centre
- Certificate in Environmental Impact Assessment – DPR

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## Technical Skills

- **CAD Software:** AutoCAD, SolidWorks, Inventor, Solid Edge, Advance Steel, BricsCAD
  - **CNC & Machining:** CNC programming, CNC operation, lathe & milling machines
  - **3D Printing:** Additive & subtractive manufacturing
  - **Engineering Tools:** ERP systems, DDM, PDM
  - **Documentation:** Technical drawings, CNC code generation, process documentation
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## Soft Skills

- Team Leadership
- Communication
- Problem Solving
- Decision Making
- Strategic Thinking
- Time Management
- Teamwork & Collaboration