

Daniel Akinwale

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EDUCATION

Cornell University, College of Engineering, Ithaca NY

August 2022-May 2026

Bachelor of Science, Mechanical Engineering | M.Eng Mechanical Engineering

Relevant Courses:

CAD I & CAD II, MATLAB, Statics & Mechanics of Solids, Dynamics, Intro to Mechanical Design, Fluid Mechanics, Heat Transfer, System Dynamics, Mechanics of Engineering Materials, Mechatronics, Propulsion Aircraft & Rockets, Automotive Engineering, Electric-Drive Vehicle Engineering, Computer-Aided Manufacture

SPECIALIZED SKILLS

Tools: CNC (HAAS), Mill, Lathe, Band Saw

Programs: SolidWorks, Fusion360, AutoCAD, Microsoft 365: Excel/Word/PowerPoint, SQL, JavaScript, Java, Python, MATLAB, ANSYS

Languages: Yoruba, English

PROFESSIONAL EXPERIENCE

Emerson Manufacturing Lab, Ithaca NY, *MLS Crew Shift Lead*

January 2024-Present

- Training students to use the different metalworking machines in the manufacturing studio
- Teaching new trainers to use unfamiliar machines through instruction and designing training parts to test them
- Supervising people in shop by policing safety issues and showing proper methods of using tools
- Inventorying and replacing damaged and old equipment

GlobalFoundries, Malta NY, *Photolithography Equipment Engineering Intern*

June 2025-Aug 2025

- Supported in-house retrofits of various photolithography track tools from TEL and SEMES
- Modernized SEMES, ACT12, and ProV tools by installing cameras and DVRs in critical processing areas for faster detection of wafer defects
- Created solutions for tool panels in need of repair by designing cheaper replacement fastening method through CAD and manufacturing using 3D printers and magnets
- Gained overview of semiconductor manufacturing and photolithography processes in a Fab environment

SRW Engineering & Architecture, Philadelphia PA, *Mechanical Engineering Intern*

May 2024-Aug 2024

- Site visits of new, completed, and in progress buildings
- Creating AutoCAD floor plans for outlets, pipes, wiring, heaters, and other infrastructure
- Designing buildings based on client specifications and what they would be used for
 - Dividing large buildings into single family homes, maximizing space given max heights of floors and building itself
 - Incorporating client ideas like having buildings partially buried
- Learning about architecture, aesthetic considerations, and functional building design
- ASHRAE Training, OSHA 10-Hour Course

The VMC Group, Bloomington NJ, *Shock and Vibration Applications Engineering Intern*

June 2021-Aug 2021

- Worked with customers to provide technical insight for isolator selection in the aerospace and defense field.
- Designed, created, and optimized shock and vibration isolation systems to protect sensitive equipment against harsh environments like off-road terrain, turbulent flight, and bomb blasts.
- Learned to perform extensive modeling, simulation, and dynamic analysis of nonlinear six-degree-of-freedom (6DOF) system response to shock and vibration phenomena.

Tesla Motors, Sparks, NV, *Tesla Mentee/Intern*

June 2021-Aug 2021

- Supported design project to create a sleeving device for Tesla Stator in Fusion360
 - Learned functional design and optimization of manufacturing processes

ORGANIZATIONS

Cornell Hyperloop (Project Team), *Composites Team Lead*

February 2023-Present

- Composites Team Lead in charge of designing carbon fiber aeroshell, designing manufacturing process team will follow, instructing team in process, and chemical safety enforcement
- Extensive CAD modeling, analysis, and machining for manufacture using SolidWorks, ANSYS, lathes, mills, and CNCing

National Society of Black Engineers (NSBE), *General Member*

October 2022-Present

- Work with peers to grow as engineers, assist our community, and take advantage of career-building opportunities
- Attend conferences and events for career-development and skill-building