

Tobi Sanni

Engineering AI Evaluation and Workflow Automation

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Mechanical engineering graduate with commercial solar and storage development experience at PowerFlex and Standard Solar. Builds AI-assisted tools and automated workflows, defines technical requirements, evaluates outputs and directs revisions. Combines engineering coordination and documentation with hands-on review of AI-assisted systems.

Professional Experience and AI Automation

PowerFlex | Development Engineer II, Solar and Storage | Dec 2024 – Sep 2026

- Managed technical development of a 60-project commercial solar and storage portfolio across six states, coordinating feasibility, interconnection, permitting, vendors and engineering handoffs.
- Coordinated utility studies and deficiency resolution across eight utilities; prepared 11+ engineering handoff packages.
- Built email automation workflows with Microsoft Teams synchronization and API-based information retrieval to address repetitive coordination and information-handling tasks.
- Provided engineering context and workflow requirements, developed tools with AI assistance and reviewed outputs against team needs.
- Worked on additional internal AI tools to address team inefficiencies; implementation details remain confidential.
- Developed a human-reviewed workflow for researching state interconnection requirements, piloted across four states; presented practical AI workflows to colleagues in July 2026.
- Developed a business case for a nine-project rooftop workflow and an AI-assisted preliminary single-line-diagram generator; the drawing tool remained unfinished.

Standard Solar | Associate Development Engineer | Mar 2023 – Nov 2024

- Prepared initial 30% design drawings for 100+ photovoltaic systems, including site layouts and supporting calculations.
- Tracked initial interconnection applications for 40 projects across six utilities; supported system modeling, site visits and code-related calculations.

AI Assisted Software and Evaluation Projects

Tickmason | Independent software project · Ongoing

- Define requirements and acceptance criteria for a local futures execution application, including chart interactions, stop placement, risk sizing and explicit state feedback.
- Direct AI-assisted implementation and evaluate behavior against written specifications; identify discrepancies and guide corrective revisions.
- Review how the interface communicates unknown broker state and entry restrictions. Distinguish screenshots, automated test results and accepted behavior.
- AI agents perform the coding; my contributions are domain context, requirements, workflow decisions and output evaluation. No trading returns or commercial-readiness claims.

ENIGMA | Independent research and automation project · Ongoing

- Author requirements and acceptance criteria; coordinate AI-assisted implementation and review outputs against the specification.
- Investigate historical data gaps, trace data provenance and check futures-contract consistency; keep unresolved questions visible and separate passing checks from accepted outcomes.

TradingView Pine Script indicators | Independent chart tools

- Define indicator requirements and chart workflows for Time and Price and SMT tools; review AI-assisted revisions for intended display behavior and configuration.
- Use actual chart output as visual evidence while keeping source code and research rules private.

Earlier Engineering and Research Experience

Standard Solar | PV Engineering Intern | Jun – Aug 2022

- Supported solar feasibility studies, preliminary site plans, energy-production modeling and system-sizing calculations.

U.S. Food and Drug Administration | ORISE Engineering Intern | Jun – Aug 2021

- Prepared additive-manufacturing samples, performed Instron compression testing, organized test data in Excel and presented findings to scientists and engineers.

University of Maryland | Undergraduate Research Intern | Jun 2020 – May 2021

- Analyzed energy consumption for 10 campus buildings; prepared a 10-page research paper and presented findings.

Education and Skills

University of Maryland, College Park | B.S. Mechanical Engineering | Dec 2022

Prince George's Community College | A.S. Mechanical Engineering | May 2020

Requirements analysis; AI output evaluation; workflow automation; technical documentation; quantitative analysis; Excel; PowerPoint; AutoCAD; solar layout and energy modeling; Python (beginner).