

Shawn Ndele

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Education

University of Illinois, Urbana-Champaign | *Grainger College of Engineering*
Bachelor of Science in Systems Engineering and Design

Expected Dec 2026

Technical Skills

Engineering & Operations: Manufacturing Systems, Production Readiness, Material Flow, Lean Manufacturing, Six Sigma, Root Cause Analysis, GD&T

Program & Execution: CapEx Planning, Critical Path Management, Cross-functional Coordination

Tools: AutoCAD, Excel, Power BI, Power Automate, Python, SQL

Work Experience

Tesla | *Manufacturing Technical Program Management Intern* **May 2026 - Aug 2026, Austin, TX**

- Supported Optimus on Material Flow; tracked equipment readiness across manufacturing sites against production need-by dates.
- Distinguished ordered from deployed equipment; coordinated engineering, purchasing, and manufacturing to resolve readiness gaps.
- Reworked equipment requirements and CapEx plans, saving \$2M in planned expenditure while preserving ramp needs.
- Built TPM Hub for shared project status, ownership, and equipment readiness across TPM, Material Flow, and manufacturing.

Smurfit Westrock | *Manufacturing Process and R&D Intern* **May 2025 – Aug 2025, Germantown, WI**

- Deployed Power Automate workflows across Forms, Excel, and Teams, reducing engineering response time by 40%.
- Built Power BI dashboards for production performance and machine utilization to support manufacturing decisions.
- Applied Lean Manufacturing and standardized work, reducing machine downtime by 10%.
- Led a CAD-based ventilation redesign through feasibility and implementation analysis, improving scrap disposal efficiency by 15%.

University of Illinois Engineering IT | *EWS Lab Consultant* **Jan 2025 – Present, Champaign, IL**

- Diagnose complex hardware, software, and network failures across 1,000+ engineering lab systems, maintaining reliability for daily instruction and research.

Entrepreneurship & Leadership

Inlet | *Founder* **Jan 2026 - Present, Champaign, IL**

- Founded and shipped a student housing platform with sublease listings, posted housing searches, roommate discovery, and date/budget matching.
- Directed AI-assisted product development through requirements, review, and release; prototyped a separate local tool for housing cost/date comparisons.

Galvanic Vestibular Stimulation (GVS) | *Co-founder* **Jul 2026 - Present**

- Assembled an ESP32-based hardware prototype, wiring the controller, battery power stage, PWM filter, and analog bench circuitry.
- Integrated and tested live game telemetry on a XIAO ESP32-S3; verified power rails with a multimeter and troubleshoot wiring and control faults.

Illini Kart Racing | *Founder, Treasurer & Head of Manufacturing* **Jan 2024 – Present, Champaign, IL**

- Founded an electric go-kart team; led CAD-to-manufacturing execution and secured funding and external partnerships.
- Reduced material costs through data-driven sourcing strategies and design optimization.