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# AIDEN TERRY

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## WORK EXPERIENCE

### Caterpillar Inc.

Jan 2026 - Present

Manufacturing Engineer - Internship

- Supported reconfiguration of production line layouts, **reducing operator travel by 18%**
- Designed paint masks for engine components, **increasing paint speed by 25%** and reducing rework.
- Executed 5S improvements that **cut workstation clutter by 40%** and improved tool retrieval time.
- Identified waste in assembly and paint processes, validated improvements with operators, and standardized updated work instructions.
- Led continuous improvement initiatives by collecting process data and proposing tooling and layout changes adopted on the production floor.

### Gulfstream Aerospace

Aug 2025 - Dec 2025

Reliability Engineer - Internship

- Automated supplier communication workflows, achieving **>90% cycle-time reduction**
- Built anomaly-detection pipeline processing **2.5M+ data points**, reducing review time by **96%**
- Developed FRACAS classification model with **98% accuracy** across **19 failure types**, improving consistency of root-cause triage.
- Created a data-quality assessment tool to standardize FRACAS dataset validation and reduced defect rates.
- Led a 5-person team to an estimated **\$28M in cost savings** via fleet-wide component review and validation

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## PROJECTS

### Sudoku Solver - Python + Tkinter

- Engineered a rule-based Sudoku solver implementing **human-style deduction techniques**.
- Built a Tkinter UI with clear  $3 \times 3$  box delineation for puzzle entry and step-by-step solving visualization, enabling interactive debugging and technique validation.

### Crystal Growth Simulator (C++)

- Developed a **simulation** modeling nucleation and crystal growth behavior with **real-time visualization** and **parameter-sweep** capability.
- Implemented growth algorithms and **rendering logic** to study morphology changes under varying environmental conditions.

### Hydration Hero - Garmin Connect IQ App

- Created an embedded **navigation app** for Garmin Fenix devices using Monkey C, integrating onboard GPS and compass for direction and distance guidance.
- Designed **low-power** UI optimized for quick, glanceable directions to water

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## LEADERSHIP & ENTREPRENEURSHIP

Mississippi State Center for Entrepreneurship x MCITY

### President + Mentor

Jan 2024 - May 2025

- Guided founders through ideation, validation, prototyping, and pitch development; supported the launch of **10+ startups** through structured accelerator programming.
- Co-founded an early-stage venture as COO; helped **secure \$50,000** in seed funding from angel investors.
- Organized investor-backed pitch events and provided operational guidance to young founders, enabling multiple teams to reach investment-ready milestones.

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## EDUCATION

Bachelor of **Industrial & Systems Engineering**

Bachelor of **Business Administration**

Mississippi State University

Minors: Mathematics, Supply Chain Logistics

Graduation: May 2027