Tashfeen Shafi

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OBJECTIVE: Industrial Engineering student (Junior Standing May 2026) with ASE Engine Repair Certification. Combining mechanical diagnostic skills with Python automation and CAD experience. SkillsUSA State Gold Medalist seeking Summer 2026 manufacturing or test operations internships.

EDUCATION Kennesaw State University | Marietta, GA | Exp. Grad: May 2028 B.S. Industrial & Systems Engineering | GPA: 3.82

- Standing: Junior by May 2026 (Projected 72 Credits Completed).
- Honors: First-Year Scholar (Robotics Research).

TECHNICAL SKILLS

- Certifications: ASE Engine Repair
- Software: SolidWorks, Fusion 360, AutoCAD, Python (Pandas), MS Excel.
- Fabrication: 3D Printing, Manual Mill/Lathe (In Training), TIG Welding (In Training).

ENGINEERING EXPERIENCE

KSU Formula SAE | *Suspension & Manufacturing Member* | Fall 2025 – Present

- Chassis Analysis: Conducting teardown of 2025 vehicle to identify discrepancies between CAD models and the physical build (e.g., floor pan misalignment).
- Team Support: Participating in vehicle testing sessions and safety reviews to learn system integration.
- Shop Training: Learning machining and welding to prepare for the 2026-2027 fabrication cycle.

Undergraduate Research (Tripedal Robotics) | *First-Year Scholar* | Fall 2025 – Present

- Mechanism Design: Built a tripedal robot that uses crutch-assisted geometry instead of extra motors to reduce weight and cost.
- Control Systems: Developing Python scripts to control actuator timing and maintain stability on uneven ground.
- Prototyping: Tested multiple leg designs to handle a 5kg payload without breaking.

Owner TASB Photography| *Process Automation* | 2025 – Present

- Workflow Automation: Wrote a Python script to batch-process HDR Real Estate photos (align & merge), cutting manual work time by 40%.
- Web Development: Built and currently maintain a custom HTML/CSS portfolio website.

PROJECTS

Glucose Fuel Cell Research | *Independent Researcher* | 2024

- Prototype: Built a galvanic cell to generate electricity from a glucose solution.
- Failure Analysis: Found that the voltage dropped quickly because the standard membrane was too permeable. Documented the need for a Nafion membrane or similar in future versions to fix the leak.

AWARDS

- SkillsUSA Georgia: 2x State Gold Medalist, Robotics & Autonomous Technology (2024, 2025).