

Mia R. Shepherd

Baton Rouge, Louisiana

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EDUCATION

Southern University and A&M College, Baton Rouge, LA

Bachelor of Science in Mechanical Engineering, **3.55/4.0** GPA Expected Fall 2027

SKILLS AND SOFTWARE PROFICIENCIES

Software: Microsoft Office Suite • C++ • SEEQ • SolidWorks (Beginner) | Standards: ASME B16.5 • ASME PCC-1

WORK & LEADERSHIP EXPERIENCE

May 2026 – Present	Georgia Tech Carbon Management Fellows Program	Hybrid
Fellow	- Developed a process flow diagram integrating a combined-cycle power plant with an MEA-based carbon capture system to evaluate retrofit opportunities. - Collaborated with fellows from multiple universities and academic disciplines to develop carbon management recommendations for a power generation case study. - Evaluated 3 carbon capture technologies: amine-based, chilled ammonia, and physical solvent systems.	
May 2025 – August 2025	ExxonMobil	Baton Rouge, LA
Static Equipment Intern	- Designed SEEQ dashboards for PSLA furnaces (7-10) to combine TMT trends and key KPIs for equipment health monitoring across Mechanical Integrity, Process Technical, and Fired Heater teams - Developed and authored an official MOV torque procedure for PHLA-2 reactor flanges to improve safety and standardize torque practices. - Verified 30+ heat exchanger data sheets for the West Coker and PSLA-9 units, ensuring accurate pressure, torque, and weight values for inspection and reliability planning.	
August 2024 – Present	L.I.G.O Science Education Center	Livingston, LA
Docent	- Delivering 40+ hours of STEM education to K-12 students, explaining gravitational-wave science. - Leading monthly Science Saturdays, engaging 50+ students and participating in STEM outreach at local schools. - Collaborating with LIGO and Exploratorium staff to improve STEM education and outreach efforts.	
June 2024 – August 2024	C.R.E.S.T REU	Baton Rouge, LA
Research Assistant	- Designed a supercritical CO₂ extraction chamber, selected plant samples, and supported research development. - Annotated five weekly scholarly articles, contributing to a CO₂ extraction bibliography. - Collaborated on building an extraction machine and assisted with quality control measures.	

ACTIVITIES & HONORS

- Jaguar Battalion – MSIV Cadet - The National Society of Black Engineers (REB) – T.O.R.C.H. Chair – (CEB) Engineers – Comms Chair 2024–25 - Programs Chair 2025-26 - ExxonMobil Pilot Program – Scholar - Society of Women Engineers – Vice President 2026-27-Comms Chair 23-24 - Sophomore Rep 24-25 – Programs Chair 25-26 - Dr. Dolores Spikes Honors College – Scholar	- Top Jag Program – Scholar 2025 Turner Construction Tuition Assistance Recipient 2024 Chevron Energy Innovation Summit Third Place Recipient 2024-26 Deloitte Foundation SWE Scholarship Recipient 2023 UNCF Lam Research Scholarship Recipient 2023 Fund II Foundation Hometown Hero Recipient
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