

Addison Fowlkes

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EDUCATION

Texas Tech University, Lubbock, Texas
Bachelor of Science in Mechanical Engineering

Graduation: August 2026
GPA: 3.16

EXPERIENCE

Sacyr, Lubbock, Texas
Field Engineer

January 2025 - August 2025

- Optimized the concrete pouring schedule by creating a Gantt chart that tracked 40+ sections and automatically flagged conflicts with the mandatory 3-day adjacent curing time, ensuring project efficiency and organization.
- Documented all the electrical inventory and installations, ensuring milestones were hit on time.
- Instructed 2 foremen and their crews on daily tasks ensuring work was being completed efficiently and to spec.
- Conducted comprehensive cost analysis of retaining walls and mainline construction on the Lubbock South Loop which will lead to savings on an upcoming **2-billion-dollar project** in Louisiana.
- Maintained production engineer's duties on both Lubbock South Loop and 19th Street projects for over a month.

LyondellBasell, Houston, Texas
Reliability Engineering Co-Op

August 2024 – December 2024

- Developed engineering scope for reinstallation of a furnace exhaust stack, allowing for an organized schedule and a list of all tasks that needed to be completed.
- Eliminated hazardous steam condensate spray and recurring pipe shearing by redesigning piping geometry.
- Participated in comprehensive training sessions covering key plant equipment: valves, piping, instrumentation, distillation, exchangers, pumps, and steam systems.
- Collaborated with Mumbai engineering team on modeling and calculations for several projects which led to both a hydraulic and a stress analysis report.
- Collaborated with on-site technical professionals, including engineers, inspectors, and surveyors, to develop a practical understanding of field operations, quality control, and construction processes.
- Toured 3 other sites and guided a tour consisting of 10 other students from other sites/areas.
- Assessed 40+ vessels ensuring their max allowable working pressure did not lead to a brittle failure during low temperature seasons.

Caprock Aoudad Outfitters, Fluvanna, Texas
Guide/Social Media Assistant

February 2019 – October 2022

- Communicated with clients of varying hunting experience levels, adjusting guidance accordingly.
- Fostered positive connections with every client leading to 15+ return hunters.

PERSONAL PROJECT EXPERIENCE

Pickleball Paddle (*personal project*)

June 2023 – August 2025

- Analyzed carbon fiber vs. honeycomb aluminum for strength-to-weight optimization and performance.
- Utilized Inventor Professional and CAD to analyze different materials weights and patterns.
- Designed models that could be used by a CNC machine to cut a ¼ inch piece of aluminum that could be wrapped in various materials.
- Communicated with several different professors in order to pool the best ideas for the first prototype.

Unreal Engine 5 (*personal project*)

May 2023 – August 2025

- Utilized Cesium and Google Maps API to generate landscape of Texas Tech Campus as well as Raiders Pass Apartments Complex.
- Optimized the graphics/rendering methods to fix crashing issues which increased the performance by 125%.
- Imported assets created from scratch using Blender which allowed realism and the user to walk around.

Skills

Design & Modeling: Inventor Professional, GD&T, Blender, Unreal Engine 5

Analysis & Software: P&IDs, Excel, Python, MATLAB

Field Engineering: Gantt Scheduling, Cost Estimation, Quality Control/QA, Electrical Inventory Management