

Adel Alturairri

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Summary

Fourth-year Chemical Engineering student at King Saud University seeking co-op training in petrochemicals, desalination/energy or process operations. Hands-on design and lab experience with strong teamwork and process safety background. With skills in Aspen Plus, MATLAB, and Excel for calculations, simulation, and data analysis.

Co-op availability: 28/6/2026 | Riyadh (willing to relocate)

Education

King Saud University, B.Sc. in Chemical Engineering

Expected Graduation: JUNE 2027 | GPA: 3.5/5.0

Courses & Certifications

- **CCPS Process Safety Fundamentals Certificate (CCPSf)** -AIChE / CCPS
- Process Safety and Risk Analysis, UC Davis
- **IELTS Academic**, Overall Band score: 6.5

Projects

Shell-and-Tube Heat Exchanger Design

- Designed and sized a shell-and-tube heat exchanger using manual calculations and Aspen Plus.
- Calculated heat duty ($Q=1.16$ MW), tube count, overall heat-transfer coefficient (U), and pressure drop, verified ΔP meets design limit (tube 0.34 bar \leq 0.6, shell 0.18 bar \leq 0.5).

Student Pickup Calling System (Team Project)

- Led a team to design a concept system to reduce school pickup congestion by enabling parents to call students more efficiently
- Generated concepts using morphological analysis and selected the best concept using a weighted decision matrix.

Laboratory Experience — King Saud University (Ongoing)

- Performed and analyzed Unit Operations experiments including V-mixer solid mixing, tensile testing, filtration, and heat exchanger performance evaluation.
- Instrumental Analysis (UV-Vis): performed blank/baseline correction and full spectrum scan to determine λ_{max} , built a Beer-Lambert calibration curve, determined unknown concentration and molar absorptivity (ϵ).

Skills

- **Programming and numerical methods**, MATLAB
- **Simulation and process design**, Aspen Plus
- **Data analysis**, Excel

Languages

- Arabic, Native
- English, Proficient