



CONTACT INFORMATION



(225) 555-0192



marcus.whitfield@example.com



Baton Rouge, LA

KEY SKILLS

- Aspen process simulation
- Heat and material balances
- P&ID walkdowns and red-lines
- Historian dashboards and control system trending
- Hazard review scribe
- Change management packages
- Excel and Python for data pulls
- Root cause analysis (5-Why, fishbone)

MARCUS WHITFIELD

Process Engineer

Chemical engineer with two and a half years supporting a Gulf Coast olefins unit. At home in the field with operators, in Aspen for heat and material balances, and in control room trending screens when something drifts. Looking to grow into process safety and reliability work.

PROFESSIONAL EXPERIENCE

2022 - Present

Process Engineer | Delta Meridian Petrochemicals, Baton Rouge, LA

- Own daily performance monitoring for the C3 splitter and two reboilers, flagging fouling trends about a month before the previous manual review would have.
- Ran a heat exchanger cleaning study that recovered roughly 8 MMBtu/hr on the crude preheat train and paid back within the next turnaround cycle.
- Rewrote the operating envelope for the depropanizer after a feed slate change and walked all four crews through the new limits.
- Support hazard review revalidations as scribe, closing about 40 action items across two studies last year.

Summer 2021

Process Engineering Co-op | Delta Meridian Petrochemicals, Baton Rouge, LA

- Built the Aspen model used to justify a \$1.2M reflux pump replacement, including sensitivity cases across three feed compositions.
- Field-verified 60 P&ID sheets against the plant during a shutdown and logged red-line changes into the drawing system.
- Presented the fouling study findings to the operations manager and unit superintendent.

EDUCATION

B.S. Chemical Engineering, Louisiana State University, 2022

Fundamentals of engineering exam, chemical discipline, passed 2022