

# Cade P. Pellerin

(409) 489-2614 • [cadepellerin@gmail.com](mailto:cadepellerin@gmail.com) • cadepellerin.com

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## Education & Awards

### B. S. in Mechanical Engineering

May 2022

Lamar University, Beaumont, TX

- GPA: 3.95
- Summa cum laude, Senior of Significance, Reaud Honors College Graduate, Best of Mechanical Engineering

### Lean Six Sigma: Yellow Belt

June 2022

### Eagle Scout

December 2016

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## Work Experience

### Mechanical Engineer I

August 2022 - Present

Hargrove Engineers & Constructors, Beaumont, Texas

- Led and managed the mechanical engineering and piping engineering efforts on multiple petrochemical projects throughout FEL and Detail Design phases.
- Identified inefficiencies in work processes and implemented solutions that saved hundreds of engineering hours on a single project alone, and that will continue to save time on future projects.
- Utilized Caesar II software to conduct comprehensive pipe stress analysis, ensuring the structural integrity and safety of piping systems, according to industry, company, and client standards.
- Utilized Caesar II and NozzlePRO to perform analysis on equipment nozzles to confirm loads were within acceptable limits. Equipment included pumps, shell & tube heat exchangers, fin fan exchangers, turbines, and pressure vessels.
- Generated detailed stress reports to facilitate effective communication with both internal disciplines such as Civil Structural and Piping, and with clients.
- Completed the mechanical portions of line lists, such as insulation details, paint specs, and test pressures according to industry and client specifications.
- Created datasheets and requisition packages for a variety of equipment, including: pumps, heat exchangers, pressure vessels, and specialty items.

### Mechanical Engineering Intern

June 2022 - July 2022

Westlake Chemical, Lake Charles, Louisiana

- Reviewed, updated and organized preventive maintenance procedures for 250 pieces of rotating equipment.
- Created preventive maintenance procedures for specialized equipment operating in high temperature environments.

### Industrial Standby Rescue Technician/Field Hand

May 2020 - Present

Industrial Rescue Instruction Systems, Beaumont, Texas

- Prepared rescue plans, identified hazards, and completed various work permits.
- Mitigated the dangers of confined spaces, trenches, hazardous environments, and high work.
- Taught skills while ensuring the safety of students participating in high angle/confined space rescue classes.

### New Student Orientation Leader

Summer 2019, 2020, 2021

Lamar University, Beaumont, Texas

- Welcomed thousands of new students and families to Lamar University at orientations throughout the summer.
  - Performed, presented, and improvised for audiences of 500 attendees.
  - Received in-house awards for servant leadership.
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## Leadership

### Lamar University Ambassador Program

April 2019 - May 2022

Lamar University, Beaumont, Texas

- Promoted Lamar University at the executive level by hosting prominent alumni, and by serving at community outreach programs and campus wide events
  - Received continual training on business and social etiquette, and conversation and networking skills
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## Skills & Training

- High Competency in CAESAR II, Microsoft Applications, and MATLAB
- Familiar with Solidworks, ANSYS Workbench, SAP, and Java
- High Angle Rope Rescue, Low Angle Rope Rescue, Confined Space Rescue, Patient Packaging