

**Zachary Kael**  
zkael19@gmail.com  
500 Barreca St, Norco, LA 70079  
504-952-7202

**Objective** Inspired to obtain a position in the mechanical engineering field to enhance and utilize the skills that I have acquired through my education and professional experience.

**Education** **University of Louisiana at Lafayette**  
*Bachelor of Science in Mechanical Engineering* December 2019  
Overall GPA: 3.24  
**Brother Martin High School**  
*Honor Graduate* August 2011 – May 2015  
GPA: 4.46

**Honors/Awards** Dean’s and President’s Lists-Fall 2015, University Academic Scholarship, Distinguished Freshman Housing Scholarship, Louisiana TOPS Honors Scholarship

**Relevant Coursework** Statics, Dynamics, Thermodynamics, Thermal Engineering, Engineering Analysis, Fluid Mechanics, Machine Design I, Heat Transfer, Projects II, CAM II, Energy Systems, Kinematics, Mechanics of Materials, Fluids II, Machine Design II

**Experience** **Stupp Corporation** January 2020-Present  
*Project Engineer*

- Support Mill production by troubleshooting equipment, administering engineering solutions, providing documentation/drawings for equipment repairs, etc.
- Lead various projects for the improvement of systems within the Submerged Arc Weld Helical Pipe Mill
- Upgraded the Flux Recovery Vacuum system to improve efficiency and reduce costs
- Recognize budget/time management throughout the lifetime of projects
- Provide engineered solutions to Engineering Change Requests by utilizing the design process
- Develop detailed engineering plans/drawings for the completion of project work and Mill maintenance jobs

**Stupp Corporation** May-December 2019  
*Mechanical Engineering Intern*

- Designed a Pipe Ring Cutting Cart to minimize the number of wasted pipe
- Revised original equipment drawings/documentation to reflect any engineered solutions to improve efficiency of design
- Utilized Inventor, AutoCAD, and CREO for design-work implemented in projects
- Communicated with vendors for purchasing of equipment

**Hard Rock Construction, LLC** May-August 2018  
*Road Grading Crew*

- Surveyed elevation of the work site to prepare for job
- Assisted in the excavation and removal of old roads
- Aided in the insertion and grading of new material added for the foundation of newly poured concrete

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<b>Professional Organizations</b>	<b>American Society of Mechanical Engineers (ASME)</b>	2017-Present
	<b>Louisiana Engineering Society (LES)</b>	2017-Present
	<b>National Society of Leadership and Success (NSLC)</b>	2016-Present
<b>Projects</b>	<b>Deadfall Daytime Feeder</b>	August 2018-May 2019
	<ul style="list-style-type: none"><li>• Design waterproof deer feeder that only allows deer to feed during the day</li><li>• Appear aesthetically as a fallen tree</li></ul>	
	<b>Manual Machining Project</b>	August-December 2018
	<ul style="list-style-type: none"><li>• Machined set of gears to act as rotating pen holder</li></ul>	
<b>Skills</b>	<b>Mission to Mars Robot</b>	August-December 2017
	<ul style="list-style-type: none"><li>• Designed and built an Arduino controlled robot</li></ul>	
	Solid Works Certified, Creo Certified, Inventor, AutoCAD, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Teams	