

November 4, 2024

Wendy Gerlach
Rosenbauer LLC
5181 260th St Building #2
Wyoming, MN 55092

Dear Ms. Gerlach,

I'm writing to apply for the Pump Panel Mechanical Designer position at Rosenbauer. As a nearly graduated mechanical engineering student, I have always been attracted to designing and manufacturing high quality solutions. Through my FSAE and professional experiences, I have been able to add value to projects by designing components and fabrication systems. I would appreciate an opportunity to bring this experience to your team! I'm confident that my diverse technical knowledge, leadership skills, and design experience would make me a strong candidate for a design position at Rosenbauer.

During my time on Temple University's Formula SAE team, TFR, I've displayed my passion for problem solving and learning by spearheading projects in a variety of vehicle subsystems. While leading the Suspension sub-team, I redesigned and machined uprights to support the switch from 13" to 10" wheels. While in the design phase, I used my fabrication experience to choose design elements that would allow more efficient machining and require less starting materials. Not only did my final design meet project requirements, but it reduced component mass roughly 15%. Furthermore, the machining process I developed required roughly 132 cubic inches less material, eliminated 20+ hours of total cycle time, and yielded reusable tooling and fixtures. These processes have resulted in our team placing 15th out of 120 team at the 2024 global FSAE competition, breaking the school record by 9 places.

Acting as president of TFR taught me a tremendous amount about leadership. I was able to bring my skills to the professional world as the CAD administrator for NDI Engineering, where I oversaw the completion of a technical drawing package for a temporary submarine alteration project. Nearly 40 part and/or assembly drawings as well as multiple major system rip-out/installation plan drawings were effectively delegated to 4 other engineers. Contacting past project contributors and researching archival documents allowed me to gain the comprehensive systemwide understanding needed to lead my team. I tracked each task through a detailed spreadsheet which effectively shared project progress with Naval customers. Holding regular team meetings allowed project goals to be adapted to meet shifting customer requirements.

Being a Pump Panel Mechanical Designer will require both technical expertise and leadership skills. I believe my experiences demonstrate that I would be a valuable addition to the Rosenbauer team. I would appreciate a chance to further discuss my qualifications in person or over the phone. Please don't hesitate to reach me at jakob.werle@temple.edu or 570-533-6951. Thank you for your time and consideration!

Sincerely,

Jakob Werle