

October 16, 2024

Hiring Coordinator
Phillips and Temro Industries
9700 W 74th Street
Eden Prairie, MN 55344

Dear Hiring Coordinator,

I'm writing to apply for a Quality Engineering position at Phillips and Temro Industries. As a nearly graduated mechanical engineering student, I have always been attracted to problem solving and improving designs. Through my FSAE and professional experiences, I have been able to add value to projects by creating solutions that focus on root issues. 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 the Quality Engineering team at Phillips and Temro.

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 working on the systems integrations sub-team, I designed and fabricated the entire vehicle wiring harness to integrate the new MoTeC ECU platform. I worked directly with the powertrain team to set timing and calibrate engine sensors inside the M1 Tune software which further validated the harness. Furthermore, I collaborated with my team at the chassis dyno to create a baseline volumetric efficiency based EFI calibration. The final dyno plots showed an increase of roughly 3 hp and 3 ft-lb of torque in the mid rpm range (7-10k); making a more consistent and drivable power delivery. This 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 Quality Engineer will require both technical expertise and leadership skills. I believe my experiences demonstrate that I would be a valuable addition to Phillips and Temro Industries 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