

September 03, 2024

Kelsey Diederich
Sr. Early Talent Program Specialist
Polaris
2100 Hwy 55
Medina, MN 55340

Dear Ms. Diederich,

I'm writing to apply for a Core Engineering Early Development position at Polaris for the Fall of 2024. As a nearly graduated mechanical engineering student I have always been captivated by the creative and thoughtful designs that emerge from the motorsports industry. Having toured Polaris' facilities, I noticed how their focus on collaboration and testing has led to impressive powersports equipment. I would appreciate an opportunity to add value to your team. I'm confident that my diverse technical knowledge, leadership skills, and motorsports experience would make me a strong member of an engineering development team at Polaris.

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 using Rapid Harness software. Hand calculations were done to select conductors and the system was validated through standalone component testing. This addition eliminated virtually all electrical hardware related vehicle failures while simultaneously granting the ability to collect nearly 20 streams of vehicle data. By avoiding weeks of system integration troubleshooting, the team captured substantially more engine calibration and driving data which led to a more empirically understood and developed vehicle package. 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 for 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 in the Engineering Early Development Program will require both technical expertise and leadership skills. I believe my experiences demonstrate that I would be a valuable addition to Polaris' engineering 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