

January 9, 2025

Hiring Manager
Polaris
301 5th Ave SW
Roseau, MN 56751

Dear Hiring Manager,

I'm writing to apply for a Test Cell Operator position at Polaris. As a recently graduated mechanical engineering student, I have always been captivated by technical challenges that arise in the motorsports industry. Through my FSAE and professional experiences, I have demonstrated my ability to tackle complex problems by leading design and testing processes that addressed critical 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 Test Cell Operator 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 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 calibration for the EFI, (electronic fuel injection), system. 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 the engine deliver more consistent and drivable power. This resulted in our team placing 15th out of 120 teams at the 2024 global FSAE competition, breaking the school record by 9 places.

The Test Cell Operator position offers an opportunity to apply and develop engine calibration skills while contributing to the powersports industry. With my hands-on experience designing, testing, and analyzing complex systems, I am confident that I would succeed in this role. By selecting me for this position, Polaris would gain a dedicated team member who is eager to innovate and grow along with the company.

I would appreciate a chance to further discuss my qualifications in person or over the phone. Please don't hesitate to reach me at yak108@outlook.com or 570-533-6951. Thank you for your time and consideration!

Sincerely,

Jakob Werle