

November 19, 2025

Kollmorgen
Gothenburg, Sweden

Dear Hiring Manager,

I am writing to express my strong interest in the Junior Software Engineer – Operation & Visualization position at Kollmorgen. With hands-on experience in visualization systems, realtime monitoring dashboards, and automotive UI development, I am excited about the opportunity to contribute to your AGV operation software.

At ECARX, I have been deeply involved in creating visualization and monitoring solutions for complex automotive systems. I designed and implemented realtime performance dashboards using Grafana and Prometheus for Android AOSP build infrastructure, providing intuitive visual feedback that enabled our team to achieve a 3.5x performance improvement. These dashboards process and visualize terabytes of build data daily, with our Android 15 AOSP clean build time reaching 7 minutes 47 seconds – among the fastest publicly reported times.

Beyond infrastructure monitoring, I have extensive experience building userfacing applications with modern frameworks. My hobby projects demonstrate this breadth: I developed Android Auto applications with automotive-optimized UI/UX compliant with safety standards, created a crossplatform carpooling mobile app with realtime geolocation tracking and interactive maps using React Native, and built ecommerce platforms with realtime analytics dashboards. Each project required balancing technical complexity with userfriendly design.

What excites me most about this role is applying my visualization skills to robotics and autonomous systems. Having worked with automotive testing platforms including Polestar 4/5 emulators, I understand the importance of reliable, intuitive interfaces for complex systems. I am eager to bring my realtime data visualization experience, UI/UX skills, and passion for automation to help Kollmorgen deliver worldclass AGV operation software.

I am a collaborative team player who thrives in crossfunctional environments, fluent in English and Mandarin with Swedish B2 proficiency. I would be thrilled to contribute to your team in Gothenburg.

Sincerely,