



# Reginald Marr

## *Application for Robotic Solutions Engineer at Apera AI*

 Hamilton, Ontario     reginald.t.marr@gmail.com     519 410 9617  
 reggiemarr     reginald-marr-0b28a8a3     3274010/Reginald Marr

Dear Hiring Manager,

I am writing to express my interest in the Robotics Solution Engineer position at Apera AI. With my robust background in system integration and automation design, as well as my track record of taking on challenging roles and projects, I am eager to apply my skills to help advance the cutting-edge field of robotic perception.

My passion for ambitious tasks began during my university years, where I balanced software development for the Solar Car team, welding for post-grad courses, and collegiate sailing regattas. This passion was further nurtured at L3Harris-Wescam, where I held roles in sustaining and new product integration. In both roles, I was recognized for my initiative in automating tasks, providing documentation, and mentoring new hires, which led to my promotion to new product integration (NPI) designer.

At L3Harris-Wescam, I translated my earlier experiences into numerous successes. Initially hired in a sustaining role, I collaborated closely with systems engineers to address bugs identified during final pre-production checks. This role expanded my skills in embedded programming and task automation, but more significantly, it enabled me to become proficient in operating a variety of systems supporting a vast feature set. While in this role, I initiated mentorship programs for new hires and documented poorly understood legacy software for the benefit of the wider team. Recognizing my contributions, I was promoted to the position of New Product Integration (NPI) Designer.

As an NPI Designer, I've spearheaded several projects and now lead various domains, including lens, laser, and ground control systems. My most ambitious project to date involved the development of a new laser range finder, which introduced a host of technical and logistical challenges. Prior to this, the company had no built-in expertise in optical systems; hence, our goal was to not only establish this capability but also to develop a product that surpassed the specifications of the best market offerings at the time. The project required unwavering dedication, dynamism, and intense collaboration across software, mechanical, electrical, and electro-optical engineering teams. I am proud to report that, upon customer delivery, we managed to produce a product with a range performance roughly 2x that of our competitors.

I believe this experience as well as other proven skills such as developing data distribution pipelines, abstracting various protocols, and designing device driver frameworks will prove valuable in designing and developing robotic automation solutions with Apera AI. Further, my ability to adapt and learn quickly, coupled with my programming skills, make me well-suited for implementing robot programs tailored to customers' specific needs.

My multifaceted experience, including skills in developing data distribution pipelines, abstracting various protocols, and designing device driver frameworks, will serve as a substantial asset in designing and developing robotic automation solutions with Apera AI. Coupled with my swift adaptability and strong programming skills, I am uniquely positioned to respond to customer needs. Inspired by Apera AI's mission to transform the field of robotic perception, I'm eager to contribute my experiences with complex systems and my passion for innovation. Drawing on my past success in simulation and testing, I'm excited to apply my technical expertise to work with cutting-edge vision software and make a positive impact on your team.

If my profile appears to be one which matches what you are looking for; let's chat.

Best regards,

Reginald Marr