Md Amran Hossen Bhuiyan
Toronto, Ontario, Canada
437-260-4380, amran@yorku.ca
https://mdamranhossenbhuiyan.github.io/amran/

February 27, 2026

Hiring Committee
SOLINK
Canada

Dear Hiring Committee,

I am writing to apply for the AI Architect position at Solink. I hold a PhD in Computer Vision and Machine Learning and bring over 10 years of experience building and operationalizing AI systems across video analytics, multimodal learning, and applied decision-support platforms. Throughout my career, I have focused on designing systems that move beyond experimentation and become reliable, scalable tools that teams can depend on in real-world environments. Solink's focus on turning video into operational intelligence aligns naturally with my background in embedding-based vision systems and production AI architecture.

In my current role at York University, I lead research and development of domain-generalizable vision-language systems, embedding models, and distillation frameworks. My work emphasizes architectural clarity, robustness under distribution shift, and strong evaluation practices. I regularly design transformer-based and multimodal pipelines with attention to lifecycle management, inference efficiency, and system maintainability. Beyond modeling, I think in terms of system evolution—how components interact, how standards are defined, and how teams can consistently build AI in a structured, repeatable way.

Alongside research, I have worked closely with industry teams to deliver production-ready AI solutions. At Veyetals and MarkiTech.AI, I led development of a real-time vital-sign monitoring system from facial video, building end-to-end deployment pipelines across mobile and web platforms. At Waysights, I developed and fine-tuned object detection systems under real-world road conditions. Earlier, during my industrial fellowship with ÉTS and SPORTLOGiQ, I worked on large-scale video analytics for player tracking and identification, focusing on efficiency, pruning strategies, and deployment constraints. Across these roles, I collaborated directly with engineers and product stakeholders, balancing accuracy, latency, infrastructure cost, and long-term maintainability.

I bring a systems-oriented mindset and a steady approach to leadership. I value clarity in architecture, thoughtful experimentation, and shared standards that allow multiple teams to build confidently. I enjoy working closely with engineers, exchanging ideas, solving hard problems together, and helping create an environment where strong technical decisions can grow naturally. As a Canadian Permanent Resident, I am fully eligible to work in Canada and prepared to meet Solink's security and compliance requirements. I look forward to the possibility of working together to build AI systems that are not only powerful, but dependable and grounded in real operational needs.

Thank you for your time and consideration.

Sincerely,

Md Amran Hossen Bhuiyan, PhD