

Dear Hiring Manager,

I am writing to express my strong interest in the Lead Engineer, Computer Vision and Software Development (2114) position at ASTRI, as advertised. With over 10 years of experience in software algorithm development, specializing in computer vision, AI-driven systems, and cross-platform integration, I am confident that my background aligns well with the requirements of this role.

Throughout my career, I have led multiple projects involving computer vision, deep learning, and robotic systems integration. For instance, at SMARTMORE CORPORATION LIMITED, I developed an AI-driven robotic arm system that integrated Transformer-based action prediction and traditional hand-eye calibration, achieving high precision in object localization and real-time response in dynamic environments. I also led the development of a deep learning-based OCR tool for the semiconductor industry, achieving a recognition rate comparable to industry leaders like Cognex.

My technical expertise includes proficiency in C++, Python, OpenCV, PyTorch, and various simulation and molecular dynamics tools such as LAMMPS and OpenMM. I am particularly drawn to ASTRI's focus on intelligent perception, AI-driven systems, and Digital Health projects, especially BCI(brain computer interface) alike systems.

I am excited about the opportunity to contribute to ASTRI's mission of enhancing Hong Kong's competitiveness through applied research. I am confident that my technical skills, practical experience, and passion for innovation would make me a valuable asset to your team.

Thank you for considering my application. I look forward to the possibility of discussing my qualifications further.

Sincerely,

Xiangru ZHOU (Johnson)

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