

Dear Hiring Manager,

I am writing to express my strong interest in the Algorithm Developer 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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