

January 6, 2021

Reflex Traffic System Pty Ltd
31 Market Street, South Melbourne,
Victoria 3205, Australia

Dear Sir or Madam,

I am writing to apply for the position of C++ Software Engineer. With five years plus experience in software development and Embedded system design, I see myself as an excellent fit for this role.

Through my career as a Software Engineer, I have extensive experience in cross platform C++ Qt applications development and FreeRTOS embedded system design. In Blackmagic Design, my responsibilities include developing new Application, engineering tools (video/audio), API implementation. My most recent project is implementation of Video Assist 4K 3D LUT feature. I am solely responsible for this project and the product's release cycle.

With an Electronics Engineering and Physics background, I have strong understanding of product from system level and experience in hardware integration. In my first job at Welling & Crossley, I involved in many electrical/electronics and control system projects, which requires integrating developed electronics modules or commercial sub components into a larger system where there are sensors, actuator, mechanical lever, engines, electric motors, generator, and VFD. As a lead engineer, I was also in charge of bringing a new product - AS2941 diesel fire pump control panel from concept to release.

Being a software engineer, I always push myself to continuously deliver the highly efficient software and innovative solution. My interests, however, extend far beyond my work. I have been actively engaging in online courses including machine learning, Aerial Robotics from Coursera, and AI for Robotics from Udacity. They open a new way of thinking for me in solving real world problems. As an extension to the courses, I developed an open source quadcopter 3D simulator, and self-driving robot-car simulator on GitHub, which also demonstrates my competency in advanced mathematics and strong algorithm design ability in AI.

I believe my versatile skill set, accompanied by various work and outside work experiences, could allow me to significantly contribute to your organisation. **Subject Line is FPG**

Sincerely,

Peter Huang
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