October 18, 2018

To Whom It May Concern:

This is to verify that Kazufumi Watanabe was employed by our company in Japan as a CMOS Image Sensor Process Integration Engineer from September 2007 to December 2015. Mr. Watanabe’s job duties included, but were not limited to, the following:

1. Developed small pixel such as 0.9um/1.0um CMOS image sensor.
2. Developed color filter and micro lens array process, including:
3. Structure optimization for phase detection (PDAF) module;
4. Back-side illumination (BSI) process development; and
5. Back side deep trench (DTI) isolation for small pixels.
6. Performed CMOS image sensor process integration.

Mr. Watanabe was well-equipped with the skills mentioned above before he resigned in December, 2015. During the 8 years working with us, he developed extensive experience required for performing the job duties.

Thank you for your attention. Please contact us if you have more questions.

Sincerely,

Keiji Mabuchi

Manager of Pixel Research and Development Section