



Kaijie Wei

Project Senior Assistant Professor

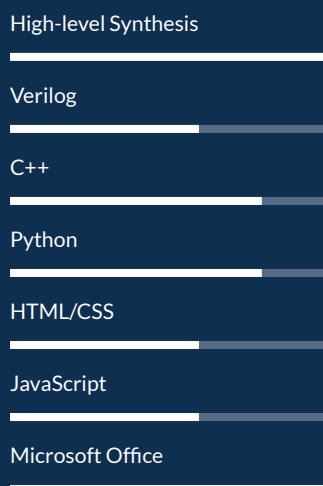
Details

Kawasaki
Japan
(+81)80-2551-3057
wei@am.ics.keio.ac.jp

Links

[LinkedIn](#)
[Researchmap](#)

Technical Skills



Languages



Hobbies

Marathon, Music, Movie,
Sightseeing, etc.

Profile

Experienced FPGA Design Engineer with 5+ years in image processing, HPC applications, and quantum computing. Skilled in developing and optimizing FPGA solutions using HLS and Verilog, with expertise in system architecture, digital design, and verification. Recognized through multiple publications and honors for contributions to cutting-edge technologies. Strong communicator, fluent in Japanese, Chinese, and English, adept at delivering innovative, high-performance solutions.

Employment

Project Senior Assistant Professor, Keio University, Kawasaki

APRIL 2023 – PRESENT

Manage systems including GDX H100 and FPGAs. Conduct research on developing an FPGA-based quantum circuit simulator and focus on creating an Error Correction Decoder for CV-QKD, contributing to advancements in quantum computing and secure quantum communication technologies.

Education

Doctor course, Keio University, Yokohama

APRIL 2020 – MARCH 2023

Doctoral thesis: FPGA-Based Image Processing Algorithms Implementations for Advanced Driver Assistance System

Master course, Keio University, Yokohama

APRIL 2018 – MARCH 2020

Master thesis: A Mechanism for Implementing a Neural Network on a Low-End FPGA Platform

Honors and Achievements

Young Researcher Presentation Award

JANUARY 2024

IEICE RECONF

Doctoral Dissertation Recommended by the Research Committee

AUGUST 2023

Journal of Information Processing (JIP)

Best Paper Award

JUNE 2022

The International Symposium on Highly Efficient Accelerators and Reconfigurable Technologies (HEART)

Extra-curricular activities

Foreigner Supporter, Tsurumi International Lounge, Yokohama

APRIL 2020 – MARCH 2022

- Assist foreign residents and visitors in adapting to life in Japan.
- Providing language support and offering guidance on social life