

KUAN-YU CHANG

VERIFICATION IP DESIGN ENGINEER

Avery Design Systems, Inc.
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PROFESSIONAL EXPERIENCES

Verification IP (VIP) Design Engineer

Upper Layer Group of PCI Express (PCIe) VIP Team

Avery Design Systems, Inc., Taiwan¹

Jul. 2021 - present



AVERY
design systems

- Focus on the Next Generation Protocols
 - Enhance VIP to support FLIT mode for upper layers of the PCIe 6.0 architecture
 - Develop Streaming Fabric Interface (SFI) Bus Functional Model
- Customer support of product usage
- Compliance test case design

EDUCATION

National Tsing Hua University, Hsinchu, Taiwan

Advisor: Prof. Chun-Yi Lee

- M.S. in Computer Science – Jun. 2021
 - Thesis Title: *Mapping Nearest Neighbor Compliant Quantum Circuits onto a 2-D Hexagonal Architecture* [NDLTD]
- B.S. in Interdisciplinary Program of Science – Jun. 2017
 - Double expertise in *Computer Science* and *Chemistry*



TECHNICAL SKILLS

Programming Languages

Software & Tools

Operating Systems

C/C++ , SystemVerilog, Verilog, Bash, Perl, Python

Docker, LaTeX, MS Office

Ubuntu, CentOS, macOS, MS Windows

PUBLICATIONS

- [1] **K.-Y. Chang** and C.-Y. Lee, "Mapping Nearest Neighbor Compliant Quantum Circuits onto a 2-D Hexagonal Architecture," *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)*, vol. 41, no. 10, pp. 3373–3386, Oct. 2022, ISSN: 1937-4151. DOI: 10.1109/TCAD.2021.3127868.
- [2] Y.-H. Chang, **K.-Y. Chang**, H. Kuo, and C.-Y. Lee, "Reusability and Transferability of Macro Actions for Reinforcement Learning," *ACM Transactions on Evolutionary Learning and Optimization (TELO)*, vol. 2, no. 1, Apr. 2022, ISSN: 2688-299X. DOI: 10.1145/3514260.
- [3] Y.-M. Chen, **K.-Y. Chang**, C. Liu, T.-C. Hsiao, Z.-W. Hong, and C.-Y. Lee, "Composing Synergistic Macro Actions for Reinforcement Learning Agents," *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, pp. 1–8, 2022. DOI: 10.1109/TNNLS.2022.3213606.

¹Siemens Digital Industries Software acquired Avery Design Systems, Inc. in March 2023. [Read more]