

EDUCATION

- **University of Utah** Salt Lake City, USA
Ph.D. in School of Computing Aug. 2023 – present
Advised by Prof. Cem Yuksel and Prof. Erik Brunvand
- **Tsinghua University** Beijing, China
M.Eng in School of Integrated Circuits Sept. 2016 – Jul. 2019
Advised by Prof. Woogun Rhee
- **University of Electronic Science and Technology of China(UESTC)** Chengdu, China
B.Sc in School of Microelectronics and Solid-State Electronics Sept. 2012 – Jul. 2016
- **Chiba University** Chiba, Japan
Exchange program in Faculty of Engineering Oct. 2015 – Jul. 2016

RESEARCH INTERESTS

- Rendering, novel view synthesis, hardware ray tracing

SELECTED PUBLICATIONS

- Jacob Haydel, Gaurav Bhokare, **Kunnong Zeng**, Pengpei Hong, Sushant Kondguli, Brian Budge, Erik Brunvand, Cem Yuksel, “Arches: A Cycle-Level Hardware Simulation Framework for Exploring Massively Parallel Ray Tracing Architectures” **HPG2025**.
- **Kunnong Zeng**, Woogun Rhee, Zihua Wang, “A BBPLL-based demodulator with multiphase and feedforward linearization methods for phase-tracking receivers” **IEEE EDSSC2019**.
- Xiaohua Huang, **Kunnong Zeng**, Yuguang Liu, Woogun Rhee, Taeik Kim, Zihua Wang, “A 5GHz 200kHz/5000ppm spread-spectrum clock generator with calibration-free two-point modulation using a nested-loop BBPLL” **IEEE CICC2019**.
- Jiahao Zhao, Yining Zhang, **Kunnong Zeng**, Woogun Rhee, Zihua Wang, “A 2.4-GHz Crystal-Less GFSK Receiver Using an Auxiliary Multiphase BBPLL for Digital Output Demodulation With Enhanced Frequency Scaling” **IEEE TCAS-II2021**.

INDUSTRIAL EXPERIENCE

- **HiSilicon Technologies Co., Ltd.** Shanghai, China
Digital circuits and algorithms design engineer Sept. 2019 – Jul. 2023
- **Shengqu Games** Shanghai, China
Game designer intern in Product Research Center Jul. 2018 – Aug. 2018

SELECTED HONORS & AWARDS

- **The Special Grade People Scholarship** UESTC; 2015
- **The First Grade People Scholarship** UESTC; 2014
- **The Third Prize in National College Students Mathematical Competition of SiChuan** Chinese Mathematical Society; 2014
- **The Second Prize in Contemporary Undergraduate Mathematical Contest in Modeling of SiChuan** China Society for Industrial and Applied Mathematics; 2015

ADDITIONAL INFORMATION

- **Programming Skills:** C/C++, Python, GLSL
- **Japanese:** JLPT-N1