

Weichao Zhou

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RESEARCH INTERESTS

- Artificial Intelligence, Reinforcement Learning
- Formal Methods

EDUCATION

Boston University

- M.S in Computer Engineering 09/2016-present

Fudan University

- M.S in Microelectronics 09/2012-06/2015

Fudan University

- B.S in Microelectronics 09/2008-06/2012

WORK & RESEARCH EXPERIENCE

Safety-Aware Inverse Reinforcement Learning 09/2016-present

- Conducting a research on combining formal verification and inverse reinforcement learning to build up a safety-aware AI framework.

Micron Technology, Inc., Product Engineer 05/2015-07/2016

- Designed test cases and wrote test scripts in Python to verify eMMC and UFS products.
- Wrote test programs and scripts in C++ and Perl to test NAND memory circuits.

TFET's (Tunneling Field-Effect Transistor) Application on Memory 03/2012-01/2014

- Cooperated with semiconductor chip manufacturer to fabricate TFET units and DRAM cells based on TFETs.

FinFET (Fin Field-Effect Transistor) Project 01/2014-06/2015

- Used Sentaurus to simulate a new FinFET structure and used SPICE to simulate circuits based on the new FinFETs.

High frequency AlGaIn/GaN HEMT (High-electron-mobility Transistor) on Silicon Substrate 05/2014-06/2015

- Fabricated high-frequency AlGaIn/GaN HEMTs on Si substrate for RF circuit applications.

Evaluation of Buffer Organizations for Network-on-Chip 09/2010-05/2011

- Applied queueing theory to analyze Network-on-Chips performance under different allocations of virtual channels and channel buffer resources.

PUBLICATIONS

1. **Weichao Zhou**, Wenchao Li, "Safety-Aware Apprenticeship Learning", International Conference on Computer-Aided Verification (CAV), 2018. <https://arxiv.org/abs/1710.07983>
2. **Weichao Zhou**; Peng-Fei Wang; Zhang, D.W., "A sub-10nm U-shape FinFET design with suppressed leakage current and DIBL effect," in Semiconductor Technology International Conference (CSTIC), 2015 China , vol., no., pp.1-3, 15-16 March 2015 doi: 10.1109/CSTIC.2015.7153322
3. **Weichao Zhou**; Xi Lin; Xiao-Yong Liu; Xiang-Ming Xu; Chun-Min Zhang; Jin-Shan Shi; Peng-Fei Wang; Zhang, D.W., "Investigation of spin-on-dopant for fabricating high on-current tunneling field effect transistor," in

Solid-State and Integrated Circuit Technology (ICSICT), 2014 12th IEEE International Conference on , vol., no., pp.1-3, 28-31 Oct. 2014 doi: 10.1109/ICSICT.2014.7021392

4. Ming'e Jing; Pengshuai Ren; **Weichao Zhou**; Zhiyi Yu; Xiaoyang Zeng, "**Evaluation of buffer organizations for network-on-chip**," in Solid-State and Integrated Circuit Technology (ICSICT), 2012 IEEE 11th International Conference on , vol., no., pp.1-3, Oct. 29 2012-Nov. 1 2012 doi: 10.1109/ICSICT.2012.6467882