

Stanford



David Shim

Ph.D. Student in Electrical Engineering, admitted Autumn 2024

 Curriculum Vitae available Online

Bio

BIO

I worked as an SSD firmware engineer at Samsung Semiconductor for over 8 years, primarily on FTL.

Major research topics include 1) replacing DRAM cache with NAND cache within an SSD, 2) maximizing device lifetime by optimizing trim operations, 3) redesigning metadata blocks to minimize write amplification factor(WAF) and maximize performance.

HONORS AND AWARDS

- Innovation Award (PM1743 Enterprise SSD), Consumer Electronics Show (CES) (01/2022)
- President's Award for the World's First 32TB SAS Solid-State Drive (PM1643 Enterprise SSD), Korean ImpaCT-ech Awards (09/2019)

EDUCATION AND CERTIFICATIONS

- Bachelor of Business Admin., The University of Texas at Austin , Business, Management Information Systems (2012)
- Bachelor of Arts, The University of Texas at Austin , Economics (2012)

LINKS

- LinkedIn: www.linkedin.com/in/huisub-david-shim

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Computer Architecture, Robust Computing, Formal Verification, Machine Learning

Professional

WORK EXPERIENCE

- Senior Software Engineer - Samsung Semiconductor (March 1, 2023 - August 25, 2024)
- Software Engineer - Samsung Semiconductor (January 4, 2016 - February 28, 2023)