Jinpyo Kim

Seongnam, Korea | kjp0812@gmail.com | recipient of Ph.D. program fellowship from SK Hynix

Education	**Sogang University, Seoul, KOREA** Master of Science in Computer Science and Engineering, February 2016 Advisor: Professor Juho Kim **Sogang University, Seoul, KOREA** Bachelor of Engineering in Computer Science and Engineering, February 2014

Research Interest

- Scalable and efficient storage system for reducing carbon emissions.
- Memory hierarchy with proper emerging memory technologies.
- Recoverable persistent memory for crash consistency

Research Experience

CAD & VLSI Research Lab in Sogang University, Seoul, Korea
Master's Thesis : Efficient Flash Cache Management in Online Transaction Processing Server
Project : Process variation and BTI-aware Static Timing Analysis for Samsung, 2014 – 2015.

Work Experience

SK Hynix, Seongnam, Korea
Embedded Software Engineer **(2016 – present)**
- Conducted development on Datacenter SSD feature such as Power Loss Protection and customizing QoS(Quality of Service).
- Conducted research on real workload of SSD device, performance estimation, QoS simulation and competitor benchmarking.

Republic of Korea Navy
Computer Technician **(2008 – 2010)**
- maintained a variety of linux OS servers such as Solaris and Red Hat at Naval Headquarters

Patents

P1 – "Memory controller, memory system having the same, and method of operating the same."
U.S. Patent No. 2019/0163387.
P2 – "Memory system and operating method thereof."
U.S. Patent No. 2020/0126624.
P3 – "Data storage device, operation method thereof and controller therefor."
U.S. Patent No. 2020/0301586.
P4 – "Memory system, memory controller and method for operating memory controller."
U.S. Patent No. 2021/0133058.
P5 – "Memory system and method for operating memory controller included therein."
U.S. Patent No. 2022/0043601.
P6 – " Storage device and method of operating the same."
U.S. Patent No. 2022/0050604.

Honors & Awards	SK Hynix Ph.D. Program Fellowship in 2021 SK Hynix Industrial Scholarship in 2012
Technical Skills	**Programming Languages:** C/C++, Python, Java, UNIX shell **Platform** : Windows XP/7/8/10, Linux, UNIX server **Debugger** : TRACE32 (hardware debugger for embedded systems such as ARM architecture)
References	Prof. Dr.Juho Kim (advisor) Professor at Sogang University, Director of CAD & VLSI Lab, Rich Hall 906A, Sogang University, Seoul, Korea. Email: jhkim@sogang.ac.kr Phone:+82-2-706-3997 Dr. Dongyoung Seo (co-worker) Principal Engineer at SK Hynix Inc., Project Leader of Client SSD team, 13 floor, SK-U tower, Seongnam, Korea. Email: dongyoung.seo@sk.com Phone:+82-10-8590-6536