

# JinPyo Kim

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Seongnam, Korea | jinpyo.kim@sk.com |

## Education

**Graduate School of Sogang University**, Seoul, KOREA

M.S. at the Department of Computer Science and Engineering

Mar. 2014 - Feb. 2016

Advisor : Professor Juho Kim

**Sogang University**, Seoul, KOREA

B.S. at the Department of Computer Science and Engineering

Mar. 2007 - Feb. 2014

## Research Experience

**CAD & VLSI Research Lab**, Seoul, Korea

Master's Thesis: Efficient Flash Cache Management in Online Transaction Processing Server (<http://www.dcollection.net/handler/sogang/000000058759>)

Feb. '15 – Jan. '16

Process variation and BTI-aware Static Timing Analysis

Feb. '14 – Jan. '15

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## Work Experience

**SK Hynix Inc.**, Seongnam, Korea

Senior Embedded Software Engineer

Feb. '17 – present

- worked at SSD (Solid-State Drive) Firmware FTL(Flash Translation Layer) development team. Work involved enterprise SSD feature design and implementation such as Power Loss Protection and optimization performance and QoS(Quality of Service) of SSD.

Junior Embedded Software Engineer

Feb. '16 – Jan. '17

- worked at SSD Firmware Performance Analysis team. Work involved SSD workload profiling, performance estimation, QoS simulation and competitor benchmarking.

**Republic of Korea Navy**

Computer Technician

Apr. '08 – Apr. '10

- maintained a variety of linux OS servers such as Solaris and Red Hat at Naval Headquarters

## Patents

Y.Jin, D.H.Koo and Jin Pyo Kim. (2019). "Memory controller, memory system having the same, and method of operating the same." U.S. Patent No. 2019/0163387.

Jin Pyo Kim. (2020). "Memory system and operating method thereof." U.S. Patent No. 2020/0126624.

Jin Pyo Kim. (2020). "Data storage device, operation method thereof and controller therefor." U.S. Patent No. 2020/0301586.

Jin Pyo Kim. (2021). "Memory system, memory controller and method for operating memory controller." U.S. Patent No. 2021/0133058.

Jin Pyo Kim. (2022). "Memory system and method for operating memory controller included therein." U.S. Patent No. 2022/0043601.

Jin Pyo Kim. (2022). "Storage device and method of operating the same." U.S. Patent No. 2022/0050604.

## Honors

SK Hynix Inc. Ph.D. Program Fellowship Candidate in 2021

SK Hynix Inc. 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

1. Prof. Dr. Juho Kim (advisor)  
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2. Dr. Dongyoung Seo (co-worker)  
Principal Engineer at SK Hynix Inc., Project Leader of Client SSD team, 13 floor, SKU tower, Seongnam, Korea.  
Phone: +82-10-. Email: [dongyoung.seo@gmail.com](mailto:dongyoung.seo@gmail.com)