

Daeun Oh

Software Engineer

Contact

Address
South Korea

Phone
(+82) 10-2182-7520

E-mail
daeunoh98@gmail.com

Websites, Portfolios, Profiles

- www.linkedin.com/in/daeun-oh-2685b1277
- <https://github.com/daeunohh>

Education

2019-03 - 2021-02
Bachelor's Degree
Electrical And Electronic Engineering
Sungkyunkwan University - Suwon-si, Gyeonggi-do

Electronics And Information Engineering
Sejong University - Seoul
2017-03 - 2019-02
Transferred to Sungkyunkwan University

Skills

Computer architecture
Embedded Software
SSD expertise
Object Oriented Programming
Software requirement analysis
SW testing skills
DevOps

Software Skills :
- C++
- C#
- Python

Software engineer with 3 years of professional experience, seeking to pursue a full-time Master's degree in Computer Engineering. Possesses advanced skills in software engineering and a solid understanding of computer architecture.

Work Experience

2022-03 - Current	SSD Diagnostics Software Developer <i>Samsung Electronics, Hwaseong-si, South Korea</i> <ul style="list-style-type: none">• Developed an automated SSD error analysis tool, ensuring compatibility with all consumer SSDs and enhancing diagnostic efficiency.• Engineered an advanced SSD error analysis automation tool for data center SSDs, significantly improving reliability and maintenance processes.• Implemented Samsung-specified SSD error log specifications into code, achieving precise and efficient error detection.• Conducted a comprehensive analysis of customer requirements and integrated their needs into the software design, delivering customized solutions.
2021-03 - 2022-01	Missile Simulation Developer <i>LIG Nex1, Seongnam-si, South Korea</i> <ul style="list-style-type: none">• Developed a control center simulator for the LSAM (Long-range Surface-to-Air Missile) missile system.
2019-12 - 2020-01	Internship <i>DSLAB, Suwon, South Korea</i> <ul style="list-style-type: none">• Designed an embedded circuit and software for a healthcare pet food bowl, integrating BIO-LED PBM.

Publication & Presentation

- **Submitted a presentation on Period-addible Flash-based Systems (PaFS) for the Design Automation Conference (DAC) 2024.**
- Collaborated with a team to give a poster session at DAC 2024 about Flash-based storage systems exploiting the data period for performance and security enhancement.
- Details available at: <https://61dac.conference-program.com/presentation/?id=ETPOST121&sess=sess233>
- **Oh, D., & Kim, J. hoon. (2022). The measurement of the impact of soft error in SSD's OS layer. Korean Semiconductor Testing Society Academic Conference Proceedings, 24, 298-302.**
- Gave an oral presentation at the Institute of Semiconductor Test of Korea about SSD firmware's vulnerability to soft errors.

Certifications

2022-08	Samsung Software Professional Certification (Algorithm)
2023-10	Samsung Best Code Reviewer Certification (Software Configuration Management)
2024-09	Samsung System Expert Certification (Advanced Computer Architecture and System Software)

Projects

- Server SSD dump extraction tool development, 07/2022-Present, Developed software that communicates with a host by the NVMe interface with C++.
- Client SSD dump extraction tool UI/UX development, 07/2022-Present, Developed a UI/UX system of a Windows program for client SSD analysis with C#.
- Led a CI/CD project, 03/2024-Present, Implemented a CI/CD server program for SSD tools with Python.