

Curriculum Vitae

Personal Information

- Date of Birth: Oct 10th, 1999
- Nationality: Korea, Republic of (= South Korea, 대한민국)
- Homepage: <https://hyunseong-kim.github.io>
- Personal Identifier
 - Orcid: 0000-0002-4876-7820
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Education

- 2019-Present: **Bachelor of Physics**, *School of Physics and Photonics*, Gwangju Institute of Science and Technology([GIST](#)), Gwangju.
 - CPA: 3.86/4.5 - Grade: Distinction, HighestL 4.1/4.5
- 2008-2011: **High School Education**, High school attached to school of education of Hanyang University, Seoul.

Research

Conference

- July/2022: **Poster**, "Design methods of uniform illumination light device with LEDs: boundary center matching and distribution approximation", [Optics and Photonics Congress 2022 ICC JEJU](#), [Optics Society of Korea](#), TPP-II-09.

Projects

- 2020-2021: TPMS, Design of Table size PCB Manufacturing System, funded by GIST Bachelor Project Support Program(무한도전). *Finished*.
 - Related works
 - Patent: Machine ofr manufacturing printed circuit boards using photopolymerization ffe and metal nano ink
 - Poster: Design methods of uniform illumination light device with LEDs: boundary center matching and distribution approximation

Publication

Patent

- 11/2020: Machine ofr manufacturing printed circuit boards using photopolymerization ffe and metal nano ink, Korean Intellectual Property Office
 - Roll: Conceptualization, Project administration, Resources, Software, Supervision
 - DOI: [10.8080/1020200151660](https://doi.org/10.8080/1020200151660)
 - GOOGLE_PATENT_CODE: [KR20210003063A](#)

Experience

Education

- 2021: **Teaching Assistant**, Gwangju Institute of Science and Technology, Gwangju, "GS1001 Single Variable Calculus and application"

Developer

- 2021: **Internship**, Quantum information Lab, Hanyang university., Seoul.
 - Project: Quantum computer and informatics handbook, document converting program development and wiki server environment setting. *Finished*.
- 12/2020–8/2021: **Internship**, Bioinformatics Lab, GIST., Gwangju. Working as a part-time developer.
 - Learned about data processing for large scale data, communication between server and automatic system.
 - Project: Development of preprocessed data for machine learning model indicates side effects of chemical compounds. *Finished*.
- 2019: Developer, Makerton (GIST 2019). Mobility unified black-box system using IOT

Translation

- 1/2021-8/2021: (English -> Korean) Wolfram Inc, Wolfram U team education contents translation team activity. See a [Certification](#).

Miscellaneous

- 2019: Volunteer, Junction X 2019 Hackerton
- 3/2019: Reviewer, Ikarus 2020 mock exam of high school physics II reviewer

Skills & Background Knowledge

- Programming:
 - Python: Expert, scientific module, program including gui build and deployment.
 - C: Intermediate
 - Wolfram Language: Basic
- Publishing tools:
 - Latex: Basic

Language

- **Korean**: Mother tongue
- **English**: Intermediate
 - Fluent in communicative and academic aspect
 - TOEIC: 795/990(9/2019)

Interests