

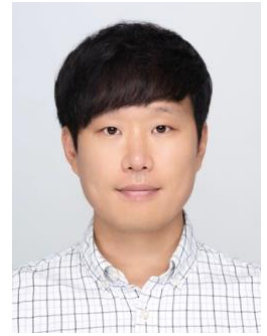
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RESEARCH INTERESTS

Image sensor pixel and architecture

- Commercial CIS (Small size pixel, Global shutter, Low-noise image sensor)
- SWIR (shortwave infrared) image sensors
- LiDAR (d-ToF, FMCW)
- Electron detector for microscope
- FLIM (fluorescence lifetime imaging) Image sensor

EMPLOYMENT

Postech (Pohang, Republic of Korea)

03/2024 – now

Assistant Professor, Department of Semiconductor Engineering

IMEC / KU Leuven (Leuven, Belgium)

01/2023 – now

Guest Professor, Sensor and Actuator department / Faculty of Engineering Science

Hanyang University (ERICA campus), Ansan, Republic of Korea

09/2022 - 02/2024

Associate Professor, department of Photonics and Nanoelectronics

IMEC, Leuven, Belgium

10/2018 - 08/2022

Principal Member of Technical Staff, Pixel system design team

Senior Engineer, Sensor Business team, Device Solution,

09/2013 - 06/2018

Samsung electronics, Hwaseong, Korea

EDUCATION

KAIST (Daejeon, Republic of Korea)

09/2006 - 08/2013

Ph.D. and M.S. Department of electrical engineering

Kyungpook National University (Daegu, Republic of Korea)

03/2001 – 08/2006

B.S. Department of electrical engineering

PUBLICATIONS

(as of Feb. 2024)

22 International Journal Papers

22 Registered Patents (including 15 US/EU patents)

LINKS

[Google Scholar](#)

[Linkedin](#)

[Group Webpage](#)

[ORCID](#)