

# HYOUNG-KYU YANG

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## EDUCATION

**Ph.D. in Electrical & Electronic Engineering (Combined M.S./Ph.D.)** 03.2017–08.2021  
Yonsei University, South Korea  
Specialization in Power Electronics and Control  
Thesis Title: Pulsewidth-Modulation Strategies for Quasi-Z-Source Inverter

**B.S. in Electrical & Electronics Engineering** 03.2013–02.2017  
Yonsei University, South Korea  
Graduation Project: PWM Control Strategies for Efficiency of Inverter in Electric Vehicle

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## WORK EXPERIENCE

**Senior Researcher** 02.2022– Ongoing  
Power System Research Center, Korea Electronics Technology Institute (KETI), South Korea

- Grid-forming / Grid-following inverters
- Renewable energy-based distributed generation system
- Electric vehicle charging system
- Permanent magnetic actuator for vacuum interrupter

**Postdoctoral Researcher** 09.2021–01.2022  
School of Electrical & Electronic Engineering, Yonsei University, South Korea

- Design of power electronics circuits
- Modeling of renewable energy-based distributed generation system
- Implementation of grid-connected converters using digital signal processor

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