

# Hayoung Kim

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## EDUCATION

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**University of Illinois at Urbana Champaign** | Champaign, IL, USA 08/2021 – Present

- Bachelor of Science in Systems Engineering & Design, Minor in Psychology
- Secondary Field Option in Cognitive Neuroscience
- Cumulative GPA: 3.64 /4.00

## WORK EXPERIENCE

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**Bridgingengineering, Founder & Lead Innovator** | Seoul, Korea Jan 2022 – Present

- Launched Bridgingengineering with a mission to revolutionize accessibility through engineering, securing a patent for a wheelchair power assist device featuring a lever operation with a ratchet mechanism for enhanced mobility
- Engineered a versatile wheelchair design adaptable to different sizes, ensuring a personalized and superior user experience ready for diverse needs
- Leading content development to enhance public understanding and appreciation of inclusive design, utilizing Instagram to highlight the significance of accessibility in product design

**DDOBAGI, Co-founder & Lead Product Engineer** | Gyeonggi-do, Korea Apr 2020 – Present

- Created a board game that promotes children's psychological health and emotional development, incorporating Korean emotional expressions; Collaborated with counseling centers to maximize therapeutic impact
- Initiated a manufacturing and donation program, distributing the game to orphanages and childcare facilities, aiding disadvantaged children
- Developing an app with Text-to-Speech technology to make the game accessible for individuals with visual impairments, broadening its inclusivity

**TradingView Indicator Development, Developer** | Seoul, Korea May 2023 – Aug 2023

- Developed advanced TradingView indicators, combining MFI, CCI, RSI, and various Moving Averages, enhancing 3-step entry and exit strategies
- Demonstrated the indicators' effectiveness, generating over \$25,000 from a \$700 investment in BTC/USD, proving their potential for lucrative trading strategies

**Development of Fall-Preventing Bike for Children, Product Developer** | Seoul, Korea May 2020 – Aug 2021

- Invented a 'Never Falling Bike for Children' by converging principles of lever and wheelchair that enables children with podiatric disability to enjoy the fun of riding a bike
- Prototyped a 3D-modeled bike using Rhino3D to create a safe bicycle paradigm

## PATENT

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**Intellectual Property Activities, Patentee** | South Korea Jul 2018 – Present

- 1) "A Wheelchair with a Structure of Being Operated by a Lever": Applied (2022)
- 2) "An IoT Type Air Cleaner Capable of Removing Micro-Particles & Bacteria Adhered to Surfaces": Registered (2020)
- 3) "An AI Operating Type of a Carrier Apparatus Capable of Moving Automatically": Registered (2020)
- 4) "A Recycling Bin that Separates Remaining Liquids from Containers": Applied (2020)
- 5) "An Artificial Intelligence Type of an IoT Apparatus (improves tooth brushing habits)": Registered (2019)
- 6) "Artificial Well System (captures airborne water using Peltier Module)": Registered (2018)

## HONORS

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**ISE Engr Visionary Scholarship** (\$5,000) Aug 2021  
**Talent Award of Korea** (\$2,000) Nov 2019