

# Jung Yeop (Steve) Kim | 김정엽

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I am a robotics **product engineer / manager** skilled in integrating hardware / software development to drive progress.  
I **ideate, design, manufacture, and program innovative robots** designed to go out into the world to live alongside people.

## Education

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**Brown University**, 2022 | BS Mechanical Engineering | BA Computer Science w/ Honors | Tau Beta Pi, Sigma Xi | 3.96 GPA

## Experience

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**Piaggio Fast Forward** | Mechanical Engineer | Personal Mobility Robotics | Jun 2022 ~

- Spearheading the interdisciplinary process for the design and manufacture of the prototype for PFF's next product line, the software development to integrate PFF's person-following capabilities onto the platform, and new feature development
- Delivered two creative hardware fixes in just a week for urgent issues blocking the gitaPLUS launch, identifying / resolving root causes, testing to verify the fixes, while having minimal impact on manufacturing and procurement
- Developed test fixtures and software for endurance testing, part conformity, and automated in-line board / motor testing

**Formlabs** | Mechanical Engineering Intern | 3D Printer Company | Jun - Aug 2021

- Investigated, proposed, prototyped, and validated a fully automated SLS Post Processing solution with minimal oversight
- Identified and resolved technical uncertainties around post-processing methods for SLS printers to push to Project phase

**McKinsey & Company** | Summer Business Analyst | Management Consulting | Jun - Aug 2020

- Interacted with clients and led multiple pipelines in Digital Transformation, Advanced Analytics and Procurement projects
- Developed a model for a client to reduce \$4M in costs over 3 years, received full-time return offer as a Business Analyst

**Careway Mobility** | Founder / Hardware Lead | Startup / Research on Mobility Assistive Devices | Sep 2019 – May 2022

- Spearheaded four full iteration cycles (design, manufacture, software bringup) of actuated walker prototypes that allow users to just walk while the walker adjusts itself to keep the user stable, leading a team of 7 students and 6 faculty advisors
- Won the ADI - MassRobotics Sensor Fusion Challenge (\$45,000), Brown's UTRA (\$4,000) and NCE Grant (\$2,500)

**Brown University** | Multiple Positions | Sep 2016 – May 2022

- Teaching Assistant: TAed five robotics courses, serving as project manager for scoping student projects, teaching students electromechanical design and programming, as well as ideating mechanical / software implementations of student ideas
- Makerspace Monitor: Headed the first redesign of the 3D printer makerspace, developed workshops for students
- Robotics Technician: Project Lead for the TableBot (furniture-based HRI prototype); designed, manufactured, programmed, and documented production-quality robot from scratch; paper published at HRI 2020 as first author

President of Tau Beta Pi at Brown | Machine Shop Trained | Best Hardware Hack at Hack@Brown 2020 | Founded robotics team, awarded at FTC World Championships | Led 100+ staff at KSCY, Asia's largest K12 research conference | Patented Magroll, a rotary case for MacBook chargers | Provided ABCT logistical / medical coverage at Eighth US Army, United States Forces Korea

## Skills and Awards

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●●● SolidWorks, Inventor | Python, Java | Design for Manufacturability | Electromechanical Design | Component Selection | Manufacturing Tools | Project Management | Version Control | Event Planning | Data Analysis, Tableau | Microsoft Office  
●●○ Circuit Design | Controls | Linux, MATLAB, ROS, C, LaTeX | Final Cut Pro / Adobe Illustrator | COMSOL / Abaqus

**The Presidential Science Scholarship** | awarded by the President of South Korea to just ten students / year (\$200,000)

**Talent Award of Korea** | the highest academic honor given by the Korean Ministry of Education