

Seowon Lucy Park

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EDUCATION

Princeton University, Princeton, NJ Expected Graduation: May 2028
B.S.E. Candidate, Major: Electrical and Computer Engineering; Minor: Dance; GPA: 3.63/4.00
Relevant Coursework: Robotic and Autonomous Systems Lab, Principles of Power Electronics, Algorithms and Data Structures, Optical and Quantum Electronics, Information Signals, Contemporary Logic Design, Introduction to Machine Learning

EXPERIENCE

Product Engineering Intern, **HUROTICS**, Seoul, South Korea Jun 2026 - Present

- Built CI tool for algorithm validation, creating dashboard for both technical coders and non-technical on-site specialists for effective code review/improvement
- Designed the data architecture for an autonomous-agent pipeline on the Claude Agent SDK, using LLMs to reconcile 88 raw IMU files across 5 conflicting schemas into a clean, labeled 477-minute dataset
- Trained a zero-parameter classifier to 0.88 macro-F1, outperforming the rule-based heuristic with no hand-tuned thresholds

Lead UX Designer Engineer, **CRISIS! Educational Games**, Princeton, NJ Oct 2025 - Present

- Led UX architecture and MVP development for a Princeton-backed educational strategy game, working across design, engineering, outreach, and story teams, and shipped a playable MVP in July 2026 for CTY review
- Protected the release deadline by front-loading kickoffs to replace frequent syncs, and swapping native animation for pre-rendered video to shrink the build

Design and Product Management, **TigerApps**, Princeton, NJ Sep 2025 - May 2026

- Led the interface-integration strategy for a new AI course-search chatbot on PrincetonCourses (10K+ MAU), keeping the platform's familiar workflow intact as a deliberate edge over rival tools
- Ran user focus groups on live mockups, turning the findings into a decision to deprecate redundant features and reclaim interface space for the added features

LEADERSHIP

President, **Princeton University Ballet** Sep 2024 - Present

- Plan and run two major annual performances with 50+ dancers, owning logistics and budget across departments
- Rebuilt the company's finances after its sole funder was cut, raising \$12,000+ in one semester and launching an endowment campaign for its 20th anniversary
- Grew Instagram to 17,000 followers (+157% reach) with a documentary series spotlighting corps dancers that balanced approachability with the company's professional image

President, **Leaders United for Change** May 2023 - Jul 2024

- Scaled a student mentoring nonprofit to 150+ mentor pairs across 13 chapters in 7 states, serving recent immigrant and first-generation students
- Organized 20+ educational events and webinars; designed and constructed a clear program infrastructure including mentor interview process, student onboarding, pairing matching, and chapter management systems

Vice President of DEI, **Kappa Alpha Theta (Epsilon Mu Chapter)** Feb 2025 - Present

Elected Councillor, **Princeton Performing Arts Council** Feb 2025 - Feb 2026

Undergraduate Course Assistant (EGR154: Foundations of Engineering: Linear Systems), **Princeton SEAS** Feb 2026 - May 2026

PROJECTS

PUnC Processor (Verilog) Dec 2025

- Built a multi-cycle LC-3 CPU in Verilog (ALU, register file, control, memory) passing a 19-test suite with zero errors, tracing a simulation hang to unassigned control-mux selects via waveform analysis

Proximity-Activated Candy Dispenser (Arduino) Apr 2026

- Debugged a proximity-triggered dispenser: isolated an I²C fault with an oscilloscope and corrected an overvoltage with a polarized capacitor under deadline

Dance Research: Movement Visualization Summers 2025 and 2026

- Won two consecutive grants (Lewis Center for the Arts; Martin A. Dale '53 Summer Award) to visualize movement without the body, exploring dynamic between body image and dance through a series of movement studies

TECHNICAL SKILLS

Programming: Python, Java, MATLAB, Verilog/SystemVerilog, Claude Agent SDK
Design: Figma, Adobe Photoshop/Illustrator, TouchDesigner
Hardware: Arduino, Vivado, oscilloscope & lab instrumentation, SolidWorks
Web & Dev Tools: Git/GitHub Actions, Vercel, Supabase
Languages: English, Korean (fluent), French (intermediate)