Ivy Lee

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SUMMARY OF QUALIFICATIONS

- User-centered individual specializing in medical device design who strives to turn ideas into real, impactful solutions.
- Experienced in CAD, Fusion 360, Excel, Python, LabView, and MATLAB.
- Effective communicator with experience aligning cross-functional teams and diverse stakeholders.
- R&D experience translating ideas into tested prototypes through iterative design and performance evaluation.

EDUCATION

University of Washington | Seattle, WA Expected Grad: Jun 2027

Bachelor of Science, Bioengineering

Overall GPA: 3.67 | Dean's List

- Relevant Courses: Biomechanics, Differential Equations, Fluid Mechanics, Statics, Physics, Signals and Sensors, Statistics.

RELEVANT WORK EXPERIENCE

Product Management & Growth Intern – Maximal Learning (Wick) Jun 2026 – Present

- Designed user surveys testing 4 product/UI variants, translating qualitative feedback into product and design iterations.
- Conducted competitive analysis across 10+ productivity and education platforms, identifying patterns in onboarding, gamification, premium conversion, and retention to inform product strategy.
- Drove product research across 3+ core experiences, including streaks, stats, and gamification, translating student pain points into features and UX recommendations.
- Built a 13-week back-to-school growth plan with a 3-post-per-week cadence across social, email, blog, and product channels.

Co-Founder – InfantLift, Assistive Device for Postpartum Caregivers Sep 2025 – Present

- Designed InfantLift, a user-centered assistive infant-care device for caregivers with upper-body motor limitations, translating user needs into functional design requirements.
- Conducted 20+ NSF I-Corps UW stakeholder discovery interviews with caregivers, clinicians, and potential users to identify accessibility barriers, usability needs, and market viability.
- Led competitive analysis, CAD modeling, COMSOL simulation, and prototype evaluation to assess safety, usability, accessibility, and performance against design requirements, culminating in a 20+ page technical report.

Co-President – Bioengineers Without Borders – Endozene Project Dec 2025 – Present

- Led 20+ undergraduate students through project ideation, needs-finding, and concept evaluation to identify and prioritize viable women's health solutions.
- Conducted stakeholder discovery with 5+ clinicians and healthcare professionals, translating feedback on user needs, clinical feasibility, and constraints into product requirements and project direction.
- Managed project strategy, timelines, and cross-functional workstreams, aligning team members around milestones and driving projects from early concepts toward validation and prototyping.

RELEVANT PROJECTS

Adaptive Wrist Brace — HuskyADAPT Design Team Oct 2025 – Jun 2026

- Designed an assistive wrist brace enabling individuals with limited hand mobility to perform daily tasks more independently.
- Developed a tapered, magnet-guided slide-in/slide-out attachment mechanism for low-force placement.
- Iterated magnet, twist-lock, and push-release switching mechanisms to optimize usability and attachment stability.
- Conducted need-finding interviews with disability experts and users to refine comfort, stability, and usability requirements.

ShoeSeize Foot-Mounted Prosthetic — Bioen 440 Final Project Mar 2024 – Jun 2026

- Led the design and development of a foot-controlled grasping and pinching prosthetic, directing a multidisciplinary team through concept generation, prototyping, testing, and final report delivery.
- Integrated MCP-driver linkages and a toe-actuated thumb mechanism to enable grasping, pinching, and hooking motions for users with severe upper-limb loss.
- Collaborated on CAD modeling, prototype construction, and evaluation of materials, load testing, and cyclic durability.

Ball-and-Socket Prosthetic — Biomechanics Course Project Jan 2026 – Mar 2026

- Designed and prototyped a ball-and-socket joint prosthetic to model human joint mechanics and load transfer.
- Gained hands-on experience in Fusion 360, tolerance design, and iterative mechanical prototyping.
- Evaluated joint stability, rotational range, and material performance under simulated physiological loads.

ADDITIONAL INFO

- Teaching Assistant, BIOEN 440 Biomechanics (Autumn 2026) — supports biomechanics instruction.
- WE Lead (Women's Entrepreneurial Leadership Program); Biomedical Engineering Society (BMES) and Bioengage; Study Abroad: Engineering Japan (Summer 2024); Kaiser Permanente Capitol Hill General Volunteer (2023)
- Interests: Painting, Video Games, Pickle Ball, Board Games, Cooking, Singing.