

Jay (Jesang) Yim

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EDUCATION

Dartmouth College, Thayer School of Engineering

Bachelor of Engineering with Concentration in Industrial & Systems Engineering

Hanover NH

Expected June 2027

Dartmouth College, School of Arts and Sciences

Bachelor of Arts in Engineering Sciences

Hanover NH

Expected June 2027

WORK EXPERIENCE

Project Manager & Lead Curriculum RD&D, The Analog Way: Reviving Hands-On Learning Experience

Sep 2025 - Present

- Served as a Project Manager and Lead Curriculum Designer on the founding team of *The Analog Way*, a phygital learning model promoting digital wellness and social connectedness through hands-on workshops (e.g., woodworking, ceramics, metalwork)
- Applied the Waterfall project management method, using Jira to organize tasks, track milestones, deliver structured planning and clear documentation, ensuring successful project delivery through effective communication and risk management
- Integrated Sloyd and Montessori frameworks into the curriculum through research, expanding the initiative's reach and establishing partnerships with 10+ local and national organizations
- Led presentations to multiple Dartmouth entrepreneurship organizations, including the Magnuson Center and Design Initiatives, to share project goals and funding needs, raising \$6,500 in seed funding through Arts Integration Grant

Consultant – Client Outsourcing, Dartmouth Tech Consulting Group, Hanover NH

Jan 2025 – Present

- Led cross-functional teams to engage 7 businesses in optimizing market positioning, identifying supply chain inefficiencies, and recommending strategies that resulted in a 20% increase in operational performance and a 10% reduction in costs
- Contributed to the development of a fully student-run business, Vox Sportswear, by designing and implementing a website that supports sales, marketing, and customer engagement, including a catalog showcasing past orders, which increased client inquiries by 20%

Sergeant / Squad Leader / Anti-Aircraft Gun Shooter, Republic of Korea Army, Republic of Korea

Feb 2023 – Aug 2024

- Identified an 8 % systematic error in calculation methods used in anti-aircraft simulation training, logged discrepancies versus handheld range-finder data, and presented a data-driven corrective algorithm up the chain of command to the brigade and Capital Corps commanders; led the implementation of the updated calculation method, cutting targeting error to 1 % and reducing engagement time by 12 seconds per shot, earning the Brigade Commander's Award of Excellence
- Led and trained an 18-member squad, overseeing tactical training and ensuring mission readiness, held weekly mental health discussions and provided peer counseling and mentorship, enhancing squad cohesion, resilience, and teamwork

PROJECT EXPERIENCE

Structural Engineering: Bridge Building Project – Solid Mechanics

Sep – Nov 2025

- Designed and tested truss bridge structures, conducting finite element analysis and material stress testing on 4 different variable designs to ensure structural integrity under varying loads and environmental conditions
- Collaborated with an 8-person team to prototype, model, and improve designs using SolidWorks CAD software, completing 5 rounds of design revisions and 6 stress tests to optimize and predict performance and efficiency

RideSecure: Enhancing Scooter Parking and Charging on Campus

Mar - Jun 2025

- Designed and prototyped a secure scooter rack, incorporating technical specifications and user-centered research to accommodate up to 50 scooters with enhanced security features and space efficiency
- Collaborated with a team of 5 cross-functional team members, refining 4 prototype iterations based on user feedback and technical testing, and planned deployment for campus-wide testing involving 3 high-traffic locations for real world evaluation

LEADERSHIP

Pan Asian Council Student Coordinator, Office of Pluralism and Leadership, Hanover NH

Dec 2025 - Present

- Directed and coordinated the Pan-Asian Council, comprising the presidents of 30+ multicultural student organizations, by aligning strategic priorities, facilitating consensus among senior student leaders, and overseeing the full lifecycle of campus-wide initiatives
- Managed the Council's budget and operational logistics, including fund allocation, timeline and vendor management, and compliance with university policies, ensuring seamless delivery of high-impact programs that foster cultural inclusion and student engagement.

International Student Mentor, International Student Experience Office, Hanover NH

Sep 2022 - Present

- Led the International Student Pre-Orientation program for 250+ new students, ensuring a smooth transition into campus life through mentoring program and tailored 5+ workshops with one-on-one advising, connecting students with key campus resources

SKILLS & INTERESTS

Machine & Computer Skills: Jira, Slack, Canva, Microsoft Office Suite, Matlab, C (beginner), Python (beginner), SolidWorks CAD

Language Skills: Native in English and Korean, Limited Working Proficiency in Spanish

Interests: Product Management, Human Factors Engineering, Project Management, Theater Tech, Golf, Squash, Cooking, Woodworking