

Jack Dyson Sisco

✉ jacksisco15@gmail.com ☎ +1-650-237-9665 🌐 in/jacksisco 🌐 www.jacksisco.com

EDUCATION

B.S. in Mechanical Engineering

The Pennsylvania State University • State College, PA • May 2025 • 3.56

Language and Culture Summer Abroad

IES Tokyo • Tokyo, Japan • May 2023 – July 2023

- Completed an intensive six-week Japanese language course, actively engaging in real-world language practice.
- Cultivated a global perspective by immersing myself in Japan's rich culture, sparking a deep passion for linguistics and cross-cultural communication.
- Enhanced teamwork and communication skills, fostering the ability to collaborate effectively in diverse, multicultural teams.

WORK EXPERIENCE

Design Engineer Consultant

Portal Diabetes

March 2025 – Present, Westfield, IN

- Participating in design reviews to evaluate and refine components for an implantable insulin pump, ensuring safety, performance, and compliance with medical device standards.
- Utilizing SolidWorks to create precise, manufacturable design schematics, integrating mechanical and material considerations tailored to biomedical applications.
- Collaborating with manufacturing teams to optimize designs for assembly.

Mechanical Systems Intern

PAE Consulting Engineers

May 2024 – August 2024, Portland, OR

- Utilized Revit to create detailed models of existing HVAC systems for the OHSU campus, conducting load calculations to ensure system efficiency and compliance with project specifications.
- Developed Excel spreadsheets to analyze and visualize projected weather data, providing insights for designers in adapting HVAC systems for future climate change scenarios.
- Enhanced time management skills by effectively balancing multiple tasks and project deadlines, ensuring timely and high-quality completion of assignments in a fast-paced engineering environment.

LEADERSHIP

Technical Director/Officer

University Park, PA • American Society of Mechanical Engineers (ASME) at Penn State University • August 2024 – Present

- Co-lead ASME, working to make the club an inclusive space that promotes involvement and learning.
- Lead and plan large bi-weekly general body meetings for over 100 current and prospective club members.
- Run various projects in the ASME Design Team, including being project manager for the ASME e-HPV capstone.
- Plan, design and execute over 20 bi-weekly design challenges to engage club members.

Engineering Fellow

University Park, PA • Global Engineering Fellows • August 2023 – May 2024

- Publicly presented knowledge to hundreds of prospective first-year engineering students to encourage global experiences.
- Held personal weekly 1-hour long help sessions for students to advise and answer questions about studying abroad.
- Manned booths and help desks at various study abroad events to share knowledge and answer questions.

Graphics/Media Executive Chair

University Park, PA • Japanese Student Association • April 2024 – Present

- Planning large scale Spring festival expected to be trafficked by hundreds of Penn State students.
- Performing corporate outreach to secure club funds with the goal of increasing member engagement.
- Creating Graphics and media for club promotion, member apparel, and events.

SKILLS

SolidWorks, 3D Printing, Fusion 360, CATIA V5, Revit, Bluebeam, Microsoft Office, Leadership, Finite Element Analysis
