

QUANCHEN (JIMMY), SONG

(447) 902-7663 • jimmysong1600@gmail.com • www.linkedin.com/in/jimmy-song-1234s

EDUCATION

University of Illinois at Urbana-Champaign – Grainger College of Engineering
Bachelor of Science in Mechanical Engineering
Minors: Business and Computer Science

Expected Graduation: May 2027
GPA: 3.81/4.00

Related Course Work: Solid Mechanics | Statics & Dynamics | Circuits & Electronics | Manufacturing | CAD | FEA
Technical Skills: CAD (SolidWorks) | FEA (Abaqus) | Programming (Python) | MATLAB | CNC Machining | 3D Printing

EXPERIENCES AND PUBLICATIONS

ACM Research – Shanghai, China

June 2025 – August 2025

2025 Mechanical Design Engineer Intern

- Completed SolidWorks foundational training and built an agricultural drone from drawings to demonstrate understanding
- Gained cross-functional experience in wafer-cleaning/ECP tool assembly during factory rotation.
- Reduced rework time by 15% by interpreting mechanical drawings and assisting with subassembly QC

eFold – Champaign, IL

January 2025 – Present

Mechanical Team Lead

- Spearhead CAD design and FEA analysis tools to design a foldable electric skateboard enabling a 25% reduction in overall weight
- Secured 2nd place out of 50+ ventures in startup competition with original folding mechanism
- Led and delegated weekly work streams to sub team, achieving design milestone 2 weeks ahead of schedule

National Taiwan University of Science and Technology High Speed Research Center – Taipei, Taiwan

June 2023 – April 2025

Research Intern and Co-Author

- Published a research paper integrating findings in 3D printing and soft robotics as the co-author 10.1002/adrr.202500064
- Investigated mechanical properties of powder filled closed-cell lattice structures which enhanced structural integrity by 15%
- Operated essential additive manufacturing software such as Simplify3D, nTopology, and Fusion 360
- Attended 2 international expos with Prof. Jeng Ywan Jeng to analyze the market needs for 3D printing products

Harvard Association for U.S. Cross-Cultural Relations Student Business Pioneer – Shanghai, China

June 2023 – October 2023

First and Corresponding Author

- Published research paper as first author in the *Young Scholars Academic Journal* (<15% acceptance rate)
- Analyzed over 300 samples and strategized a plan with annual reduction of 4.7 billion kg of CO2 emissions
- Led a team of 6 to conduct 4 on-site research trips and interviews in separate cities to gather primary evidence

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

American Society For Mechanical Engineers – Champaign, IL

September 2024 – Present

Product Development Assistant

- Collaborate with a team of 14 engineers to work on a human-centered-design of a customized wheelchair for real clients
- Designed 30+ CAD prototypes and customized parts with Bambu Lab, reducing iteration time by 20%
- Network with mechanical engineers to gain insights into industry roles in design, manufacturing, and R&D

Illinois Business Consulting – Champaign, IL

February 2025 – Present

Strategy Consultant

- Develop detailed market strategy aimed at attracting a younger demographic for a Fortune 100 manufacturing firm
- Work alongside a team of eight consultants to develop pitch decks for client meetings and conduct in-depth secondary research
- Conduct 15+ interviews with dealers and customers in the manufacturing industry to analyze market dynamics

Beta Alpha Psi Professional Business Fraternity – Champaign, IL

February 2025 – Present

Rush Chair

- Selected as one of 37 from a competitive pool of 400+ highly qualified applicants through a multi-round interview process
- Contribute to weekly corporate events to build connections with industry professionals and expand professional networks
- Facilitate weekly philanthropy events, contributing to community outreach and social impact initiatives

HONORS & INTERESTS

Honors: Edmund J. James Scholar | AP Capstone Diploma | Star Student | Varsity Volleyball MVP | Teamwork and Leadership Certificate

Interests: Performing magician with 20+ shows for student organizations | Piano (15 years) | Calisthenics