# Albert Gan

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## Publications

- Gan, A., & Klee, D. (2024). Quantifying kitchen appliances' phantom loads using a shifted gamma distribution model. Journal of Emerging Investigators. https://doi.org/10.59720/24-011
- Gan, A., Uwakwe, M. T., & Gloumakov, Y. (2026). Path-Length Conservation with Adjustable Force Transmission in Voluntary-Open and Voluntary-Close Prosthetic Terminal Devices. IEEE BioRob 2026. (pending)

## Education

**University of Connecticut** — Storrs, CT

*Bachelor of Science, Mechanical Engineering - GPA: 3.93* — Graduation May 2029

- UConn Award Recipient
- Dean's List

## Technical Experience

**REVERT TECHNOLOGIES, INC.** — Brunswick, Maine

*Product Designer* — January 2023 – Present

- Performed comprehensive risk assessments to identify and mitigate potential operational and technical challenges, enhancing project reliability and safety.
- Designed and iterated innovative prototype products, integrating mechanical engineering principles with user-centric design to drive product development for client solutions.
- Developed and deployed robust internal tools and client-facing applications, streamlining workflows and improving user experience.

**RUKA Lab** — Storrs, Connecticut

*Undergraduate Researcher* — September 2025 – Present

- Led independent research advancing terminal upper-body prosthetic devices through mechanical design, modeling, and prototype optimization to enhance performance and usability.
- Engineered a novel toggle mechanism for split-hook prosthetics, enabling seamless switching between voluntary open and close modes with customizable force amplification tailored to user preferences. Currently in review for IEEE BioRob 2026 conference.

**Knack** — Storrs, Connecticut

*Peer Tutor* — February 2026 – Present

- Applied principles of andragogy to tailor tutoring sessions toward student autonomy, emphasizing self-directed problem solving, metacognitive strategies, and connecting abstract concepts to practical applications.
- Tutored peers in calculus I–III and computer science by breaking down complex topics into structured, intuitive steps, reinforcing conceptual understanding through guided practice, debugging strategies, and adaptive explanations based on individual learning styles.

## Skills

- **Technical Skills:** Android Studio, Autodesk Fusion360, Firebase, Git, LaTeX, Next.js, Raylib, React, React Native, Tailwind CSS
- **Interpersonal Skills:** Leadership in Team-Based Environments, Conflict Resolution, Clear Technical Communication, Collaborative Problem Solving, Mentorship, Attention to Detail
- **Programming Languages:** C, C++, Dart, Javascript, Kotlin, MATLAB, Python, Typescript