

Derek Li

Bethpage, New York liderek920@gmail.com
646-991-8939 www.linkedin.com/in/derek-li-a527b12b8

Education

Farmingdale State College, Farmingdale, NY

Bachelor of Science in Mechanical Engineering Technology (May 2026)

- **Relevant Coursework:** Technical Drawing and CAD, Thermodynamics, HVAC Systems

Relevant Experience

FDM Printing and design for Manufacturability

- Experienced in 3D printing, designing, and modeling with Inventor and SolidWorks for academic and personal projects
- 4 Years of experience using Autodesk Inventor and SolidWorks for personal and educational use
- Experience with reading and producing technical drawings and some GD&T

Machining Techniques

- Some experience with manual and CNC lathes and mills
- Some experience with MasterCAM

Academic & Personal Projects

Gas Spring Articulating Phone Stand | *Personal Project* | April 2025 - May 2025

- Designed a multi-axis articulating phone stand inspired by monitor arm kinematics, modeling all structural components and linkages in (Autodesk Inventor)
- Engineered custom housings and joints to integrate a pneumatic gas spring, allowing for smooth, counterbalanced height and angle adjustments.
- Manufactured the assembly via FDM 3D printing using Bambu Studio, strategically selecting PLA and PETG to optimize different components for rigidity and impact resistance under dynamic loads.

5-Axis Wearable Arm Exosuit | *Academic* | February 2026 - May 2026

- Designed a 5-degree-of-freedom wearable arm exosuit in Autodesk Inventor, engineered with dual functionality to serve as both a physical assistive device and a kinematic input controller for a remote robotic arm.
- Developed a rigid chassis system to support mechanical linkages, balancing structural stiffness with user mobility and precise joint alignment for accurate robotic telemetry.
- Prototyped structural components using FDM 3D printing, iterating with PLA and PETG to resolve clearance issues, ensure joint durability, and optimize the overall range of motion.

Skills Summary

Technical Skills: MS Suite, Autodesk Inventor, SolidWorks, AutoCAD, Fusion360, Cura, Bambu Studio

Social Media: LinkedIn

Soft Skills: Communication, Critical Thinking, Leadership, Collaboration

Languages: English, Mandarin

Work Experience

Chick Fil A, Hicksville, NY

Team Member, July 2023 - August 2025

- Developed in communication skills
- Created positive work environments with fellow employees
- Experience in critical thinking under the pressure of others

BestBuy, Levittown, NY

Sales Associate, August 2025 - Present

- Translated technical concepts into accessible solutions for non-technical customers.
 - Managed multiple concurrent tasks and mentored new staff in a fast-paced setting.
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