Derek Li

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EDUCATION

Wentworth Institute of Technology | Boston, MA
Bachelor of Science in Mechanical Engineering Expected Graduation: Aug. 2028

GPA 3.3/4.0

Related Courses: Thermodynamics I, Engineering Design, Engineering Graphics, Engineering Statics, Physics II

SKILLS

Software: SolidWorks, MATLAB, Python, Bambu Studio, Multisim, MATLAB, Microsoft Office (Excel, Word, PowerPoint)

Manufacturing & Lab: Manual Milling, 3D Printing, Countersinking, Tapping, Brake Press, PEM Installation, Mig Welding, Surface Finishing (EZ Sander, Time Saver)

WORK & EXPERIENCE

Kalow Technology | Rutland, VT | Intern May 2025– Sep 2025

- Operated and assisted in manufacturing processes including countersinking, tapping, brake press operation, PEM installation, and surface finishing equipment (EZ Sander, Time Saver).
- Interpreted engineering drawings to independently set up and execute machining tasks with minimal supervision.
- Supported powder coating operations including masking, hanging, and storing finished components to maintain quality standards.
- Collaborated in a fast-paced production environment, maintaining attention to detail and meeting daily output goals.

PROJECTS

Kitchen Aid Arm | Engineering Design (Group) Jan. 2025 – Apr. 2025

- Iterated through multiple prototypes to optimize part efficiency 3D parts for maximum range, strength and aesthetics while keeping the cost low.
- Collaborated in a team to create and prototype a 3D-printed arm that was mounted on a wall all designed on SolidWorks

Engineering Graphics | Wall Mounted Can Crusher (Group) Sep. 2025 – Dec. 2025

- Designed, modeled, different engineering drawings and presented a Wall Mounted Can Crusher all on SolidWorks.
- Modeled several complex parts that assembled and functioned as a complete system.

CLUBS/ORGINIZATIONS

Wentworth Society of Manufacturing | Member

- Fabricated a perfect aluminum cube using a manual milling machines using calipers, micrometers and various techniques to do so.
- Fabricated a steel heart design by cutting and bending steel stock, MIG welding the structure to a base plate, and finishing the assembly through sanding and protective coating.