

LIU (DANIEL) WEI

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EDUCATION

Northwestern University, Evanston, IL

Master of Science in *Mechanical Engineering* | Bachelor of Science in *Mechanical Engineering*

Anticipated 6/25

Cumulative GPA: **3.39/4.00**

Relevant Courses: Thermodynamics, Mechanics of Materials, Fluid Mechanics, Managerial Analytics for Strategy, Engineering Analysis, Electronics Design, Public Speaking

RELEVANT EXPERIENCE

AbsoluteMed. Evanston, IL

Cofounder

6/24 – Present

- Won 1st place in Northwestern's Healthcare Hackathon and \$1500 to develop AbsoluteMed at NU incubator
- Pitched AbsoluteMed startup to Dr. Christian Hoepfer and stakeholders at the Center for Food Allergy Research (CFAAR)
- Consulted with CFAAR, industry experts, community organizations, and prospective users to develop a HIPPA-compliant peer mentorship program for parents of children with recently diagnosed food allergies
- Developed a business strategy with the AbsoluteMed board of directors and registered a 501(c)(3) nonprofit

Alimentos S.A., Beijing, China

Engineering Project Management Intern

7/23 – 9/23

- Led the design and development of an innovative and cost-efficient product display method (patent pending) by coordinating materials acquisition and machine shop staff to produce prototypes in the shortest time possible
- Minimized project implementation costs using raw material market research, iterative simplification of design, and dimension optimization to achieve potential annual savings for the company
- Performed experiments to assess the performance of 3 ergonomic transport and delivery cartridges for client orders
- Proposed a design for an improved order transport and delivery mechanism by combining all of the efficient and beneficial components from the previous designs, and applying failure mode analysis and design thinking
- Presented project progress and results to the President, General Manager, and majority of division directors at the company using PowerPoint; successfully convinced them of the profitability of its execution

Design Thinking and Communication Course, Northwestern University, Evanston, IL

Client: Hospital Sisters Mission Outreach, Chicago, IL

4/21 – 6/21

- Designed a self-sustaining pharmacy for a medical center in Migori, Kenya using a repurposed shipping container
- Coordinated the selection of solar-powered ventilation and lighting systems for the pharmacy and the interior design
- Organized the timely completion of assignments and motivated 4-person team to complete checkpoints before deadlines
- Wrote final report and instructions for construction of the pharmacy and presented the design to the client

LEADERSHIP

Northwestern University Formula Racing, *Drivetrain Team Member*

10/22 – Present

- Contribute to designing, manufacturing and tuning the drivetrain components of a formula racing car intended for the annual Formula SAE Michigan competition
- Optimize the car's intake and exhaust system with a redesign to give it a 10% boost in power

Office of International Student and Scholar Services, *International Peer Ambassador*

4/22 – Present

- Collaborated with a team of 8 students to bring new international students to Chicago to explore the city and build community; led transportation coordination for 45 students

SKILLS

Language: Mandarin (Native), English (Fluent)

Computer: Proficient in MATLAB, SolidWorks, Fusion 360, EAGLE, AMPL, R, STATA, Excel, and PowerPoint

Laboratory: Electrical resistivity measurement, data regression and analysis, dynamic mechanical analysis, stress-strain testing, titrations, filtrations, dilutions, and other standard laboratory chemical procedures