

Frank H. Luo

frank.h.luo@gmail.com || (+1) 225-223-8662 || U.S. Citizen
1526B 13th Avenue South, Seattle, WA 98144

I am a driven engineer focused on quality, attention to detail, and results. I have experience in project management, root cause analysis, and project execution. I am currently a Computer Science student who is seeking software engineering internships.

EDUCATION

Northeastern University (Boston, MA)

January 2023 – Present

Major: Computer Science, Master of Science (Align Program)

Coursework Taken:

Intensive Foundations of Computer Science, Discrete Structures, Object-Oriented Design, Data Structures, Web Development

Vanderbilt University (Nashville, TN)

August 2014 - May 2018

Major: Chemical Engineering, Bachelor of Engineering (ABET Accredited)

Minor: Chemistry

Coursework Taken:

Process Controls, Kinetics and Reactor Design, Process and Product Design, Fluid Mechanics and Heat Transfer, Immuno-Engineering, Mass and Heat Transfer, Modeling and Simulation, Chemical Engineering Lab, Organic Chemistry, Thermodynamics, Phase Equilibria and Stage-Based Separations, Polymers, Calculus I, II, III

SKILLS / CERTIFICATIONS

Proficient in Python, Java, C++, HTML, JavaScript, MATLAB, ASPEN, HYSYS, EcoSystem, SAP

Fluent in Mandarin Chinese (Comprehension and Speaking)

OSHA and TWIC Certified

WORK EXPERIENCE

PepsiCo - Frito-Lay Division (Dallas, TX)

January 2022 – August 2022

Capital Project Manager / Engineer

- Worked in the Frito-Lay Division under the National Programs Team.
- Collaborated with vendors, engineers, and plant personnel to receive \$4MM funding from PepsiCo Leadership for PC Packaging Route Verification Phase 1 – Project dealing with the installation of cylinders, sensors, and controls that eliminates the risk of feeding the wrong chip products into the bag maker by monitoring the status of the slide gates.
- Communicated and organized the installation schedule of anti-rotate safety devices on Douglas GUACP Case Carriages across 15 Frito-Lay sites in the USA.
- Worked with Asset Strategy and R&D groups to help write off equipment that approached the end of their lifecycles.
- Participated in extracurricular organizations and events that helped foster relationships, safety, and teamwork within the company.

Honeywell International Inc. (Baton Rouge, LA)

July 2019 – December 2021

Capital Project Manager / Engineer

- Managed engineering projects that ranged from \$50K up to \$500K at the largest Honeywell HF Plant in the world. Scopes of the projects include: replacement and maintenance, equipment upgrades, health and safety installations, and cost saving improvements.
- Analyzed numerous Piping & Instrumentation Diagrams (P&IDs) to understand the scopes of work to be conducted, and worked with interdisciplinary engineers to issue final construction packages for proposed projects at hand.
- Carried out Process Hazard Analyses (PHAs) on top risk projects to make sure that the scopes of work were safe and feasible.
- Prepared an assortment of engineering legal documents and endorsements for budget requests, as well as for the procurement of equipment and construction.
- Presented proposed projects to Honeywell Leadership to obtain approval for final work scopes and budget requests before construction.
- Utilized EcoSystem and SAP software to solidify the forecast of financial information for projects, as well as to pay vendors for their services.
- Conducted daily meetings with plant leaders and process engineers to confirm that the schedules of projects were on time, and within the proposed budgets.
- Prepared monthly safety talk and training sessions among peers to ensure optimal working conditions at the Honeywell HF Plant.