

# LILLIANA LINDEMAN

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## EDUCATION

**EXPECTED MAY 2023 (PART-TIME ONLINE PROGRAM)**

**M.A.S. FOOD PROCESS ENGINEERING**, ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL  
MAY 2017

**B.S. CHEMICAL ENGINEERING**, ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL

## EXPERIENCE

**FEB. 2019 – PRESENT**

**PROCESS ENGINEER**, VALDES ENGINEERING COMPANY, GRIFFITH, IN & LOMBARD, IL

- Performed 12 client site walkdowns to verify process equipment and conditions needed for developing engineering drawings, process design bases, and piping line lists
- Drafted and revised construction and demolition P&IDs and PFDs in accordance with project scope and various client AutoCAD drafting standards
- Generated 40+ pressure relief device reports utilizing Mathcad sizing calculations and Aspen HYSYS and Petro-SIM simulations, identifying overpressure scenarios, and researching process equipment specifications

**MAR. 2018 – JAN. 2019**

**R&D CHEMICAL ENGINEER I**, MONOSOL LLC, MERRILLVILLE, IN

- Spearheaded 6 water-soluble polyvinyl alcohol (PVOH) packaging film product and process development projects
- Formulated 2 novel food-grade PVOH packaging films and directly oversaw their mixing and casting process scale-up from bench to production
- Coordinated efforts with internal and external project teams, raw material vendors, and co-manufacturers to determine product application, chemical compatibility, consumer safety, and performance requirements, ensuring strict adherence to ISO 14001, Responsible Care, cGMP, and both US and EU food law regulations
- Developed and implemented SOPs for shelf-life and application testing of PVOH films

**JUL. 2017 – MAR. 2018**

**R&D LABORATORY TECHNICIAN**, MONOSOL LLC, MERRILLVILLE, IN

- Performed physical and analytical testing of food-grade and non-food-grade PVOH packaging films utilizing Instron material testing machines, Karl Fischer titrators, Mocon MVTR analyzers, FT-IR spectroscopy, and UV/Vis spectrophotometry lab instruments

**APR. 2016 – AUG. 2017**

**IIT LEAD INTERN**, MUSEUM OF SCIENCE AND INDUSTRY, CHICAGO, IL

- Mastered the delivery of Live Science Experiences about Anatomy, Chemistry, and Physics
- Provided training and immediate performance feedback for teams of 8 summer interns and 12 Spring/Fall semester volunteers in the museum's Guest Experiences department
- Translated information for Spanish-speaking museum guests