

Michael Lerch

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Education

Lehigh University

Master of Engineering in Structural Engineering

Expected Graduation: May 2024

GPA: 3.23

- Related Courses: Structural Dynamics, Foundation Engineering, Structural Reliability of Components and Systems
- Current Courses: Structural Analysis II, Life-Cycle Systems, Remote Sensing

Moravian University

Bachelor of Science in Math-Physics, Minor in History

Graduation: May 2022

GPA: 3.28

- Related Courses: Differential Equations, Mechanics II, Computer Science I, Civil Engineering Materials
- Honors Societies: Sigma Alpha Sigma (Physics), Phi Alpha Theta (History), Phi Beta Delta (International Studies)
- Awards: Dean's List for Fall 2019, Fall & Spring 2021; Landmark Conference Honor Roll
- Study Abroad Courses: Intro to Ancient Rome in Spring 2020 (Rome, Italy)

Work Experience

Cement Company Laborer, Buzzi Unicem USA, Stockertown

Summer 2018, Summer & Winter 2019-2023

- Performed physical labor including shoveling and jackhammering to keep the plant running efficiently
- Assisted in vacuum truck operations in cement plant and quarry
- Safely completed jobs in accordance with MSHA regulations in potentially hazardous environments

Engineering Internship, Buzzi Unicem USA, Stockertown

Summer 2021

- Shadowed engineers in their daily tasks such as inspecting and troubleshooting equipment to ensure continued function of plant
- Designed schedules necessary for equipment repairs
- Organized blueprints and machine information into a database
- Digitized paperwork onto computer network to provide a paperless and organized system

Server, Hotel Bethlehem, Bethlehem

Sept. 2018-Apr. 2019

- Maintained high standards of customer service during peak-volume operations in a timely manner
- Took initiative to find extra tasks when scheduled duties were complete
- Followed food safety codes in preparation and handling of product

Maintenance, Nazareth Borough Pool, Nazareth

Summers 2014-2018

- Managed pool and park facilities to ensure a clean and safe environment

Leadership Experience

Eagle Scout, Nazareth, Achieved Spring 2018

- Eagle Scout Project: Raised \$14,000 to replace kneelers at Holy Family Church
 - Organized fundraising, contacted suppliers, created and managed a team of volunteers, and installed kneelers

Cross Country & Track and Field Teams, Moravian University

Fall, Winter, and Spring 2018-2022

- Committed 30 hours per week to athletics (in season) while maintaining 3.28 GPA
- Aided in member recruitment
- Selected for 2018 Landmark Conference All-Sportsmanship Team

Skills

Computer: Microsoft Office (Word, Excel, PowerPoint), Python, Autodesk Fusion 360, MathCad, MatLab, SAP2000, Google Applications, R-Studio
Campus Involvement: Fritz Engineering Research Society (FERS) and Investment Club