**Jonathan Gerdes**

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**Objective**

To secure an internship that will advance my education and leadership skills to propel me in the pursuit of a Structural Engineering career.

**Education**

*University of Nebraska-Lincoln* – Lincoln, Nebraska GPA: 4.0/4.0 Expected May 2023

* Bachelor of Science in Civil Engineering | Minor in Business

**Work Experience**

Nebraska Center for Materials and Nanoscience

* *Multiscale Heat Transfer Lab Research Intern* Summer 2019
  + Collected pressure drop and flow rate measurements to investigate skin friction drag of modified steel surfaces.
  + Retrieved contact angle measurements to classify modified surfaces.
  + Procured and created parts for flow channels.
  + Designed parts and learned basics for operating OpenSCAD CAD software.
  + Collected data with a Topcon Hiper ll GPS receiver system.
  + Presented my research to students and faculty throughout the summer.
* *Ferro Thin Films Lab Research Intern* Summer 2017 | Summer 2018
  + Researched the mechanics behind the growth and structural analysis of single-crystal thin films using pulsed laser deposition and x-ray diffraction.
  + Created three educational videos for explaining the professor’s research.
  + Presented my research to students and faculty throughout the summer.

University of Nebraska-Lincoln Housing Facilities – Lincoln, Nebraska

* *Student Campus Mechanic* Summer 2019
  + Maintained apartment buildings and residence halls, including both the land as well as the living units. This entailed landscaping, mowing, painting, remodeling, and installing carpet, doors, toilets, and lighting. Performed residence hall inspections for safety and quality.
  + Communicated with residents about the work situation.

**Skills**

* AutoCAD
* Microsoft Office
* Adobe Software
* Autodesk Inventor
* Revit
* Basic Welding
* SketchUp
* JavaScript
* SDS/2 Basic Training

**Activities & Leadership**

*American Society of Civil Engineers (ASCE) Student Member* September 2019 – Present

* Co-Captain | Steel Bridge Team
  + Lead the design, fabrication, and assembly of a 22’ steel bridge. Lead recruitment and fundraising.
* Member | Concrete Canoe Team

**Honors & Awards**

* Phi Eta Sigma National Honor Society February 2020
* Alpha Lambda Delta National Honor Society February 2020
* J.A. Woollam Foundation Scholarship Fall 2019 – Spring 2020
* Jim D. & Faye D. Rasmussen Fund (UNL Civil Engineering Scholarship) Fall 2019
* Dean’s List Fall 2019
* First Year Student 4.0 Academic Excellence Certificate sponsored by OASIS January 2020
* ASCE 2020 Multi-Region Leadership Conference (Selected Attendee) January 2020