

# ELI R. BARBER

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## EDUCATION

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**University of Arizona**  
*M.S. Mechanical Engineering*

**Tucson, AZ**  
*August 2019 – May 2021*

**Bowling Green State University**  
*B.S. Environmental Science*

**Bowling Green, OH**  
*August 2015 – May 2019*

- Minor in mathematics with a specialization in GIS

## PROFESSIONAL EXPERIENCE

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### Certified Transmission

*Solutions Engineer*

**Omaha, NE**  
*February 2023 – Present*

- Creating VBA macros and database tables. Company is now automatically collecting 100s of transmission test records daily, virtually eliminating data entry error, and reducing test time per transmission.
- Using SQL to create dashboards, analyze data, update records and work on various projects.
- Writing technical reports utilizing statistical analysis, graphs, and figures with Python + matplotlib, and adding these documents to companies engineering log. We have improved are warranty success rate from ~89% to ~98%

### Pima Community College

*Adjunct Faculty Mathematics*

**Tucson, AZ**  
*December 2021 – January 2023*

- Taught in-person and math classes such as calculus, precalculus and college algebra.
- Graded exams, quizzes, honors projects, and other student work.

### University of Arizona

*Graduate Teaching Assistant*

**Tucson, AZ**  
*August 2020 – May 2021*

- Taught undergraduate physics laboratory sections, graded exams, and lab reports.
- Held office hours for students to answer questions or offer additional assistance.

### AmeriCorps

*AmeriCorps Serve Member*

**Tucson, AZ**  
*June 2020 – August 2020*

- Served local youth through the Boys and Girls Club to lead games, learning activities and schoolwork.

### Ohio Environmental Protection Agency

*Groundwater Intern*

**Bowling Green, OH**  
*June 2019 – September 2019*

- Updated the Ohio EPA's Source Water Assessment Program maps and conducted fieldwork to track public water systems.

### Bowling Green State University

*Math Tutor*

**Bowling Green, OH**  
*September 2017 – May 2019*

- Tutored undergraduate students individually or in group sessions to review mathematic principles, solve homework problems, and review for tests.

### Ohio Department of Transportation

*Environmental Intern*

**Bowling Green, OH**  
*May 2016 – December 2017*

- Assisted with evaluating over 100 transportation projects under National Environmental Policy Act (NEPA) guidelines to ensure infrastructure was in environmental compliance.
- Mapped and documented project locations using GIS. Surveyed over 50 construction areas for potential wildlife impacts.

## CERTIFICATIONS & CONTINUING EDUCATION

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### FreeCodeCamp

*Full Stack Certification*

**freecodecamp.org**  
*September 2022*

### FreeCodeCamp

*Data Analysis with Python Certification*

**freecodecamp.org**  
*May 2022*

### FreeCodeCamp

*Scientific Computing with Python Certification*

**freecodecamp.org**  
*February 2022*

### Zero To Mastery

*Complete React.js Developer (w/ Redux, Hooks, Graph QL)*

**udemy.com**  
*In Progress*

### Zero To Mastery

*Complete SQL and Databases Bootcamp*

**udemy.com**  
*July 2023*

## SOFTWARE & PROGRAMMING

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**Programing languages:** Python + Data Analysis Libraries, C# + .NET, HTML, CSS JavaScript + React, SQL

**Software:** Excel + VBA, SQL Server