

# Katie Abeytia

Agricultural Engineer

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55101

## Education

**Bachelor of Science in Agricultural Engineering at University of Minnesota, Twin Cities, MN**

Aug 2018 - May 2022

Relevant Coursework: Soil Mechanics, Hydrology, Irrigation Engineering, Crop Production, Agricultural Waste Management, Farm Machinery Design, Precision Agriculture, Environmental Control Systems, and Renewable Energy Technologies.

## Links

[linkedin.com/in/katieabeytia](https://linkedin.com/in/katieabeytia)

## Skills

Irrigation management

Soil conservation

Precision agriculture

Bioprocessing technology

Aquaculture systems

Agroforestry planning

Greenhouse design

## Languages

English

German

## Profile

Agricultural Engineer with 1 year of experience in designing, optimizing, and implementing sustainable agricultural systems and solutions. Demonstrated success in collaborating with interdisciplinary teams, utilizing analytical skills and engineering principles to improve agricultural processes, and implementing innovative technologies to enhance productivity and sustainability. Highly adept at problem-solving, project management, and communicating effectively with stakeholders.

## Employment History

### Agricultural Engineer at Barr Engineering Co., MN

May 2023 - Present

- Developed and implemented an innovative irrigation system for a 500-acre farmland, resulting in a 20% reduction in water usage and a 15% increase in crop yield within the first year of operation.
- Designed and supervised the construction of a state-of-the-art grain storage facility for a local cooperative, increasing storage capacity by 50% and reducing post-harvest losses by 30%.
- Led a team in conducting a comprehensive soil erosion study on a 1,000-acre watershed, providing valuable data that informed the development of effective erosion control measures, ultimately reducing sedimentation in the local river by 25%.

### Associate Agricultural Engineer at Bolton & Menk, Inc., MN

Aug 2022 - Mar 2023

- Designed and implemented a sustainable irrigation system for a 500-acre farmland, resulting in a 25% increase in crop yield and a 30% reduction in water consumption.
- Conducted extensive soil and water quality testing for a regional agricultural project, providing valuable data that led to the successful implementation of best management practices and a 15% improvement in overall environmental conditions.
- Collaborated with a team of engineers and agronomists to develop a comprehensive nutrient management plan for a large dairy farm, reducing nitrogen runoff by 20% and improving overall farm sustainability.
- Led the design and construction of a state-of-the-art grain storage facility capable of holding 100,000 bushels, increasing efficiency and reducing post-harvest losses by 10%.

## Certificates

### Certified Agricultural Engineer (CAE)

Oct 2021

### Irrigation Association Certified Designer

Jan 2020

## Memberships