

Joy Petersen

Staff Geophysicist

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SUMMARY

Detail-oriented Geophysicist with a Bachelor's degree in Geophysics and hands-on experience in conducting non-invasive geophysical surveys. Proficient in utilizing various geophysical technologies for subsurface investigations related to environmental and engineering projects. Demonstrated ability to analyze geophysical data critically and contribute meaningfully to infrastructure project planning, design, and execution. Committed to upholding high safety and quality standards in professional practices. Eager to leverage accumulated expertise and insights in a new role that fosters growth and collaborative teamwork.

EDUCATION

Bachelor's Degree in Geophysics

University of Cincinnati 🎓 GPA: 3.8 📅 2026 📍 Cincinnati, OH

Coursework: *Geophysical Methodologies, Data Analysis Techniques, Environmental Geophysics, Project Management*

TECHNICAL SKILLS

- **Geophysical Technologies:** Ground Penetrating Radar, Electromagnetic Induction, Resistivity Imaging
- **Software Tools:** ArcGIS, MATLAB, Geosoft Station
- **Field Equipment:** GPS Units, GPR Systems, Soil Profilers
- **Data Management:** Excel, SQL, Python
- **Reporting Standards:** ASTM, AASHTO, IEEE
- **Health & Safety Regulations:** OSHA Standards, Site Safety Plans, Risk Assessments
- **Hydrogeological Assessment:** Groundwater Modeling, Aquifer Testing, Sample Collection
- **Environmental Regulations:** NEPA Compliance, CERCLA Guidelines, Health Impact Assessments
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Research Methods:** Experimental Design, Statistical Analysis, Field Studies

SKILLS

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|----------------------------------|-----------------------------|----------------------------|--------------------------|
| • Geophysical Surveying | • Safety Compliance | • Utility Locating | • Research Collaboration |
| • Data Analysis | • Report Writing | • Environmental Consulting | • Quality Assurance |
| • Ground Penetrating Radar (GPR) | • Subsurface Investigations | • Technical Writing | • Method Development |
| • Project Management | • Field Observations | • Client Interactions | |

EXPERIENCE

Geophysical Research Assistant

Academic Research Lab 📅 June 2024 - Present 📍 Cleveland, OH

Collaborated in an academic lab focusing on geophysical methodologies and utility locations, impacting multiple civil engineering initiatives. Engaged actively with various software tools for geophysical analyses.

- Conducted non-invasive geophysical surveys to identify underground utilities, supporting several civil engineering projects.
- Assisted in designing survey methodologies, which enhanced processes for data acquisition across diverse adventures.
- Analyzed complex geophysical data using advanced analytical software, providing interpretations vital for informed project planning.
- Participated in pre-task planning meetings ensuring adherence to stringent safety requirements for all project stages.
- Developed comprehensive reports summarizing findings that improved communication with stakeholders contributing to better outcomes.
- Supported field observations and coordinated data collection efforts, maintaining rigorous quality control during research.

Geophysical Survey Developer

University Project 📅 September 2023 - May 2024 📍 Cincinnati, OH

Led an academic capstone project centered around using Ground Penetrating Radar technology for subsurface exploration. Collaborated with teammates to explore environmental implications while developing practical skills in geophysics.

- Facilitated a capstone project emphasizing Ground Penetrating Radar (GPR) use for exploring subsurface soils effectively.
- Defined clear project objectives while designing innovative survey techniques tailored to meet detailed research needs.
- Worked collaboratively to assess environmental conditions and evaluate mineral resources through project-related findings.
- Presented key project insights to faculty and peers, commended for clarity and insight that sharpened team engagements.
- Consistently adhered to safety protocols during fieldwork, minimizing potential risks toward self and colleagues.

- Outlined alternative approaches for site studies contributing substantially to the academic community's knowledge base.

LEADERSHIP & AWARDS

- Dean's List, University of Cincinnati (2023, 2024)

CERTIFICATIONS

- Certified Utility Locator  2025

PROFESSIONAL AFFILIATIONS

- Member, Geophysics Society, University of Cincinnati (2022 – Present)
- Volunteer, Environmental Awareness Club (2023 – Present)

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST