



Stella Beck

Geophysicist/Geodesist

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SUMMARY

Driven geophysicist with over five years in geophysical data analysis and navigation systems. Experienced in developing innovative algorithms and user-friendly software tools for real-world applications. Strong background in physics and mathematics, complemented by a Master's degree in Geophysics. Skilled at leading research initiatives that integrate advanced data science methods to enhance defense-related navigation modalities. Passionate about supporting critical national missions through accurate geophysical insights and mentoring fellow researchers.

EXPERIENCE

Geophysicist

GeoDynamics Solutions 📅 June 2021 - Present 📍 Washington, DC

Serves as a geophysicist specializing in data analysis relevant to military navigation systems, fostering powerful operational outcomes. Responsible for pioneering projects regarding the accuracy and applicability of geophysical data for various platforms.

- Analyzed geophysical data products, enhancing their reliability for military navigation systems.
- Developed algorithms integrating geophysical data into navigation frameworks, significantly improving mission success rates.
- Led interdisciplinary teams providing technical counsel on geophysical sensors' integration into defense operations.
- Collaborated closely with military sponsors to evaluate cutting-edge geophysical solutions responding to urgent needs.
- Created error models defining implications of geophysical data sources on mission-critical activities.
- Applied machine learning techniques, optimizing data processing workflows to achieve operational efficiency.

Junior Geophysicist

EarthTech Innovations 📅 August 2018 - May 2021 📍 Alexandria, VA

Contributed as a junior geophysicist, participating in software development pipelines aimed at advancing geophysical analyses. Collaborated intensively with senior team members to elevate service quality in defense technology.

- Supported production-level software tool creation for geophysical data analysis, enhancing user experience.
- Conducted extensive assessments of current navigation methodologies, suggesting valuable improvements.
- Assisted in geophysical data evaluations, ensuring alignment with military platform requirements.
- Engaged in collaborative research projects focused on refining geophysical analysis technologies.
- Participated in designing novel geophysical sensors, enabling innovative advances for national defense.
- Documented findings and generated comprehensive reports to inform stakeholder decisions.

LEADERSHIP & AWARDS

- Certified Geophysicist, American Geophysical Union, 2021
- Excellence Award in Research, University of Maryland, 2020

EDUCATION

Master's Degree in Geophysics

University of Maryland 🎓 GPA: 3.8 📅 2020 📍 College Park, MD

Coursework: Geophysics, Earth Science, Mathematics, Signal Processing

STRENGTHS



Analytical Skills

Refined the ability to pinpoint data inaccuracies during analysis, driving actionable insights.



Leadership

Energy led diverse teams towards delivering successful research outcomes amid tight timelines.



Creative Problem Solving

Proactively found solutions for complex geophysical challenges, enhancing team decision-making processes.



Adaptability

Thrived under pressure, quickly adjusting strategies according to evolving project demands.



Effective Communication

Expertly articulated technical concepts to stakeholders, gaining trust and clarifying expectations.

SKILLS

Geophysical Data Analysis

Algorithm Development

Software Development MATLAB

Python Machine Learning

Signal Processing

Research Leadership

Technical Documentation

Data Visualization

Team Collaboration

Problem Resolution

Statistical Analysis

Sensor Evaluation

Geodesy Techniques

Advanced Analytics

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Geophysicist at
GeoDynamics Solutions (5.2
Years)

● Junior Geophysicist at
EarthTech Innovations (2.8
Years)

CERTIFICATIONS

- Certified Geophysicist 📅 2021
- Project Management Professional (PMP) 📅 2025

TECHNICAL SKILLS

- **Programming Languages:** MATLAB, Python, R
- **Data Analysis Tools:** Excel, MATLAB, Python Pandas
- **Visualization Software:** Tableau, Matplotlib, Seaborn
- **Machine Learning Frameworks:** TensorFlow, Scikit-learn, PyTorch
- **Development Methodologies:** Agile Development, Waterfall
- **Research Platforms:** GitHub, JIRA, Confluence
- **Testing Tools:** Unit Testing, Integration Testing, Regression Testing
- **Simulation Software:** MATLAB Simulink, COMSOL
- **Geospatial Analysis Tools:** ArcGIS, QGIS, Google Earth
- **Error Modeling Techniques:** Statistical Methods, Monte Carlo Simulations

PROFESSIONAL AFFILIATIONS

- Member, American Geophysical Union
- Contributor, Geophysics Society of America

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST