

Stella Beck

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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 June 2021 - Present
GeoDynamics Solutions 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 August 2018 - May 2021
EarthTech Innovations 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 2020
University of Maryland GPA: 3.8 College Park, MD
Coursework: Geophysics, Earth Science, Mathematics, Signal Processing

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

SKILLS

- Geophysical Data Analysis
- Python
- Technical Documentation
- Statistical Analysis
- Algorithm Development
- Machine Learning
- Data Visualization
- Sensor Evaluation
- Software Development
- Signal Processing
- Team Collaboration
- Geodesy Techniques
- MATLAB
- Research Leadership
- Problem Resolution
- Advanced Analytics

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST