

Minu Muhsina

Master's student in Geodesy and Geoinformatics

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📍 Morwegsgasse 27, 30167 Hannover



SUMMARY

Master's student in Geodesy and Geoinformatics at Leibniz Universität Hannover. Skilled in Python, MATLAB, and data analysis. Experienced in 3D mapping, geospatial analysis, and time series evaluation. Eager to apply technical knowledge in a practical, team-oriented environment.

EXPERIENCE

- Mathematics Tutor, West berg Int** 10/2022 – 02/2023
Calicut
- Created tailored lesson plans and assisted students in Higher Secondary level Mathematics
- Graduate Trainee, A R Associates** 10/2021 – 09/2022
Calicut
- Appointed to survey land to measure or determine features
 - Assisted with graphical representations of Civil structures using AutoCad

EDUCATION

- M.Sc. Geodesy and Geoinformatics, Leibniz Universität Hannover** 2023 – Present
- B.Tech. Civil Engineering, College of Engineering Trivandrum, India** 06/2017 – 06/2021
Grade: 9.14/10

PROJECTS

- 3D Change Detection Using LIDAR & KISS-SLAM, IKG- Hannover** 03/2025 – 08/2025
- Processed mobile LiDAR scans using KISS-SLAM to generate 3D street maps and tuned SLAM parameters to improve loop closure and point cloud accuracy
 - Registered SLAM map with reference data using RANSAC and ICP algorithms and performed 3D change detection

SKILLS

Technical Tools & Programming

Python - MATLAB - MS Excel -
AutoCAD & CloudCompare.

Geospatial & Analytical Skills

SLAM - LIDAR - Data Analysis -
Geospatial Data Visualization -
Time Series & Spectral Analysis -
3D Mapping - Change Detection

Soft Skills

Analytical Thinking - Problem
Solving -Technical Reporting

LANGUAGES

English

Advanced

Malayalam

Native

German

Beginner