

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

- Created tailored lesson plans and assisted students in Higher Secondary level Mathematics

Calicut

Graduate Trainee, A R Associates

10/2021 – 09/2022

- Appointed to survey land to measure or determine features
- Assisted with graphical representations of Civil structures using AutoCad

Calicut

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