

BASHAR MOHAMMAD

REMOTE SENSING SPECIALIST

CONTACT

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Github

SKILLS

- ENVI, ArcGIS, QGIS, SNAP, GAMMA, ASF
- Optical & SAR satellite data analysis
- Land surveying with high-accuracy GPS
- Topographic & aerial image mapping
- Multispectral and hyperspectral data processing
- Image classification and change detection
- Remote sensing for environmental monitoring
- Data fusion from multiple satellite sources
- Python scripting for GIS automation

EDUCATION

- Bachelor of Civil Engineering 2012-2020

EXPERIENCE

Independent Remote Sensing Analyst 2010 - Present

- Downloaded and analyzed thousands of satellite images from various reliable sources for geospatial and environmental projects
- Created custom maps and conducted in-depth data processing to uncover innovative insights in mineral detection and earth observation
- High-resolution imagery analysis for detecting anomalous structures to identify ancient archaeological sites
- Expertise in satellite systems: ASTER, Landsat 7/8/9, Sentinel-1/2, WorldView-3, ALOS PALSAR, SIR-C
- Hydrocarbon microseepage analysis for oil and gas exploration

KEY PROJECTS

- Minerals Exploration using multispectral satellite
- Extracted fault lines using PCI Geomatica
- Detected iron oxides & hydroxyls via PCA & Band Ratio
- Generated prospecting maps for Saudi Arabia, Sudan, Algeria, Mauritania
- Gold Exploration
- Topographic Mapping
- Created high-accuracy maps using GPS and satellite imagery

ACHIEVEMENTS

- Successfully analyzed over 1,000 satellite images, leading to the creation of detailed prospecting reports for mineral-rich regions
- Developed innovative techniques for anomaly detection, improving accuracy in hydrocarbon and archaeological site identification