

# CHAND M ANSARI

## REALTY CAPTURE & LIDAR SPECILIST

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### Profile Summary

Experienced GIS Analyst with 13 years of professional practice in various LiDAR systems (Phoenix, Optech, Leica, Trimble, Topcon, Riegl, Faro), including acquisition, processing, and geospatial analysis

### EXPERIENCE

**DATES FROM 15<sup>TH</sup> DECEMBER 2023 TO TILL DATE.**

**JOB TITLE-** REALTY CAPTURE / LIDAR SPECILIST

#### ACECO

- Use complete understanding of LiDAR principles and additional complex understanding of all geospatial and remote sensing disciplines to act as a technical expert
- Advanced technical expertise in LiDAR processing
- technical expertise in photo geometry processing
- Flight line matching and using (Terra Solid Suite).
- Advance Classification and bear earth extracting using Point cloud
- DTM and DSM creation with point cloud
- Perform Underground utility scanning using Ground Penetrating Radar-GPR, survey and  
As build.
- Generate LiDAR data, Topographic and Planimetric drawings in 2D & 3D, tile layout, project area, project requirements Etc.
- Complete data processing and translations as necessary, and perform the final review of LiDAR files as needed prior to shipment
- Prepare Long Section and Cross S from classified point-cloud.
- Understanding and processing of 3D & BIM modelling
- Provide innovative solutions to improve efficiencies utilizing new technologies, software and approaches
- Self-motivated to support research and implementation of improved technology and efficiencies
- Ability to prioritize, organize and perform multiple work assignments simultaneously
- Ability to maintain a high degree of motivation and focus with minimal supervision
- Excellent interpersonal, oral and written communication leadership and motivational
- Creating 3D BIM model with point cloud Lod500

- Performing on field with mobile lidar & TLS lidar ( Leica ,Trimble , faro , )

Completed Project in ACECO .

**At turaif** (I would like to provide a brief overview of the At-Turiaf project. We performed 3D laser scanning using the RTC360 and generated a mesh model. Additionally, a separate mesh model was created using the photogrammetry method. As part of the deliverables, we developed heritage documentation, including detailed drawings, profiles, and sections. For subsurface investigation, Ground Penetrating Radar (GPR) was used to produce both 2D and 3D underground maps, along with a 3D topographic map of the area.)

#### **Sport Boilevard Project.**

A brief overview of the Sports Boulevard Project. In this project, we utilized a mobile LiDAR scanner to capture high-resolution 3D topographic data. For underground utility detection, we used the GSSI SIR 4000 Ground Penetrating Radar (GPR) with a dual-frequency antenna, achieving a detection depth of up to 7 meters and an accuracy of  $\pm 10$  cm.

#### **Green Riyadh**

I would like to provide a brief overview of the Green Riyadh Project. In this project, we used both a mobile LiDAR scanner and a terrestrial laser scanner (Leica RTC360) to capture high-accuracy 3D topographic data and elevation mapping for each building. For underground utility detection, we deployed the GSSI SIR 4000 Ground Penetrating Radar (GPR) with a dual-frequency antenna, achieving a depth of up to 6 meters.

#### **Aramco Refinery.**

We utilized a terrestrial laser scanner (Leica RTC360) to capture precise 3D topographic data and developed a BIM model at LOD 500. For underground utility detection, we used the GSSI SIR 4000 Ground Penetrating Radar (GPR) with a dual-frequency antenna, achieving detection

#### **Ar Razi plant**

the Ar Razi plant Project. We utilized a terrestrial laser scanner (Leica RTC360) to capture precise 3D topographic data and developed a BIM model at LOD 500.

**DATES FROM 13<sup>TH</sup> DECEMBER 2020 TO 11<sup>TH</sup> DECEMBER 2023**

**JOB TITLE- GIS SPECIALIST**

**COMPANY- MICROCENTER GROUP W.L.L**

- Use complete understanding of LiDAR principles and additional complex understanding of all geospatial and remote sensing disciplines to act as a technical expert
- Advanced technical expertise in LiDAR processing
- Flight line matching and using (Terra Solid Suite).

- Advance Classification and bear earth extracting using Point cloud
- DTM and DSM creation with point cloud
- Perform Underground utility scanning using Ground Penetrating Radar-GPR, survey and As build.
- Generate LiDAR data, Topographic and Planimetric drawings in 2D & 3D, tile layout, project area, project requirements Etc.
- Complete data processing and translations as necessary, and perform the final review of LiDAR files as needed prior to shipment
- Prepare Long Section and Cross S from classified point-cloud.
- Understanding and processing of 3D & BIM modelling
- Provide innovative solutions to improve efficiencies utilizing new technologies, software and approaches
- Self-motivated to support research and implementation of improved technology and efficiencies
- Ability to prioritize, organize and perform multiple work assignments simultaneously
- Ability to maintain a high degree of motivation and focus with minimal supervision
- Excellent interpersonal, oral and written communication leadership and motivational

**DATES FROM JUN 2011 – DECEMBER 2020**

**JOB TITLE- TEAM MANAGER**

**COMPANY- GENESYS INTERNATIONAL CROP. LTD, INDIA**

- Point-cloud generation with raw data in (sm process, Pegasus manager, initial explorer, RI process, geo clean, spatial factory)
- Matching flight-lines using terra-match, data from airborne lidar & mobile lidar collection.
- Qa/qc of point-cloud bear earth classification and surface received from production department.
- Generate contour in to a specific interval and finalize contour for submission.
- Hands on creating point cloud flythrough using several software's.
- Calibrating point-clouds with spherical images using terra photo
- Prepare long section and cross s from classified point-cloud
- 3d modelling with texture
- 3d mesh model prepared using (drone data)
- 3d city model created using the airborne lidar and mobile lidar.
- Transmission power line mapping and advance classification using the terra solid suite
- Prepared poi map (point of information) using the mobile lidar
- Drone data pre post processing
- Creating tin model using point cloud and surface model

**DATES FROM 3<sup>RD</sup> SEPTEMBER 2009 – 9<sup>TH</sup> JUN 2011**

**JOB TITLE- TEAM LEADER-**

**COMPANY- MAGNASOFT CONSULTING PVT. LTD**

- Extract 3D Feature and DTM using satellite imagery
- Advance Classification and bear earth extracting using Point cloud
- DTM and DSM creation with point cloud
- Creating TIN model using point cloud and surface model.
- Base map creation land base survey data migration in auto cad
- Generate contour in to a specific interval and finalize contour for submission
- Compilation/QC/QA & Finalization.
- Transmission power line mapping and advance classification using the terra solid suite.
- Hands on creating point cloud Flythrough using several software's.
- Matching flight-lines using Terra-match, data from Airborne Lidar & mobile Lidar collection.

**DATES FROM MARCH 2007 – SEPTEMBER 2009**

**JOB TITLE- SENIOR EXECUTIVE**

**COMPANY- EDR CONTINUOS INFORMATION PVT.LTD.**

- Extract 3D Feature and DTM using satellite imagery
- Advance Classification and bear earth extracting using Point cloud
- DTM and DSM creation with point cloud
- Break line extract Using Contour Key point
- Creating TIN model using point cloud and surface model.
- Base map creation land base survey data migration in auto cad
- Generate contour in to a specific interval and finalize contour for submission
- Transmission power line mapping and advance classification using the terra solid suite.
- Hands on creating point cloud Flythrough using several software's.

## EDUCATION

- Bachelors of Arts ISBM University Chhattisgarh, India
- Master in geography, ISBM University Chhattisgarh, India

## CERTIFICATIONS

AUTODESK CERTIFIED PROFESSIONAL: AUTOCAD

## SKILLS

- Extremely proficient with Computer and Internet (Word, Excel, PowerPoint, Outlook etc.).
- **Depth Knowledge in Pre-processing of Lidar data-** RT process, Grafnav, SM Process, Geoclean, RiscanPro, initial Explorer, Pegasus Manager, Leica Infinity, Geoclean, Spatial factory, Rinex Converter, Leica Cyclone register 360
- **Depth knowledge in mapping** - MicrostaionV8, V8i, Bentley Descartes, Auto CAD, Auto cad Civil 3D, Arc GIS, Pro, MX road, Global mapper, Topo dot, Bentley Orbit, Leica Cyclone, Leica Cyclone 3dr
- **Depth knowledge in Classification** – Terra Solid suite, Cyclone 3DR, Cyclone register 360• **Depth knowledge in 3D Model-** Auto desk Revit, Bentley Open plant, Cyclone 3DR, Microstation V8i, Rhino Ceros, 3D Max, Google Sketch up
- **Depth knowledge in Walkthrough-** Bentley Point tools, Lumion 10, Bentley LumeRT, ByondCad, Leica Cyclone 3dr
- **Depth knowledge in GPR data processing** – Radan 7, GPR Slice

Thank you