

# MOHD AMIR

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## Professional Summary

Dedicated and hardworking GIS Analyst with 05 years of experience working with ArcGIS software and ArcEditor for developing GIS databases, data creation and snapping tolerances. Regularly demonstrate skill in marketing, basic sales, and customer interaction. Critical thinker continuously looking at ways to improve processes and build business. Excel in editing, COGO, map production and creating vector property maps.

## Skills

- Skilled in the use of AutoCAD, CADD, Microstation, DGPS, UAV Drone, Topobase, ESRI ArcEditor, ArcGIS, ERDAS, PIX4D, Ecognition, ENVI LiDAR, Global Mapper, Idrisi, PCI Geomatica, AutoCAD, Google Earth, MS Office. Extensive experience in using map creation software, including ArcGIS, ArcIMS, ArcView, and Trimble Pathfinder Office. Great working knowledge of computers and electronics allows for better project results and quick troubleshooting. Critical thinking and complex problem-solving skills aid in finding workable solutions to problems without expending unnecessary time and money.
- Experienced in Remote sensing techniques including image classification with various algorithms, image rectification, image calibration, Lidar data analysis and sub pixel analysis.
- Experienced in collecting geographical data and mapping projections. Experienced in maintaining and utilizing database information and creating maps.
- Experienced in UAV drone image data processing making ortho rectified image.
- Experienced in handling and analyzing large geo database.

## Work Experience

### Project Associate (GIS Analyst) in IIT Roorkee, India

November 2017 – Present

- Researched legal descriptions and survey maps to verify property lines and gather requisite information for mapping.
- Locate potential sites for schools, macro dams, healthcare facilities, and roads using spatial analysis.
- Use applicable software to create, translate, and integrate GIS data layers and digitize new data.
- Designed a standard template to allow for a simplified production process for standardized maps still in use.
- Maintained geospatial data and designed database structures in an SDE environment.
- UAV Data processing. (Ortho Mosaicing and Rectification)

### GIS Analyst in Elite Consultant, Roorkee, India

August 2015 – November 2017

- Researched legal descriptions and survey maps to verify property lines and gather requisite information for mapping.
- Developed and created GIS maps as requested by implementing ArcMap and analyzing relevant data.
- Assisted in data management and organization, including vector and raster data.
- Maintained geospatial data and designed database structures in an SDE environment.

## Research Paper\*

Remote Sensing and GIS Integrated, Study of The Dynamic Patterns of Urban Villages in Delhi, The Capital City of India

## Projects and Achievements

- Digital Land Record Modernization Program (DLRMP) (Chattisgarh & Jharkhand) IIT Roorkee, : Real Time Cadastral Surveying Solution With a Special Impthesis to Modern GPS Technology :
- Computerization of all land records including mutations.
- Digitization of maps and integrated of textual and spatial data.
- Survey/ resurvey and updation of at/settlements records.
- Creation of original cadastral records.
- GIS Survey of Dalli Rajhara: Large Scale Survey using UAV, Indian Institute of Technology, Roorkee
- (Orthomosaic images through UAV > Feature Extraction > Ground Validation & Attribute Filling > GIS Ready Map)
- Bhushan Steel and co. : Resource Mapping pf Bhushan Steel and co. (GIS Mapping) GIS Mapping of Linear Plan: for Diversion of Forest Land for Toll Plaza on Bhawanigarh, Sunam, Bhikhi, Kotshamir Road
- DPR for Kansali Dam, Chikken Dam, Ambwali Dam, Khillanwalli Darn IIT Roorkee (Orthomosaic Generation > DEM Generation > DTM Generation > Planimetry Feature Extraction > Complete Detailed Project Report)

## Conferences

UASG 2019: 1<sup>st</sup> International Conferences on Unmanned Aerial System in Geomatics - 2019, Greater Noida Extensions Center, IIT Roorkee.

## Education

### Bachelor of Civil Engineering

May 2015

Uttarakhand Technical University  
Dehradun India

### Diploma of Civil Engineering

May 2012

UBTER Dehradun  
India

### High Schooling

June 2009

CBSE New Delhi, India  
India

## Hobbies and Interests

I am an avid gardener and spend the majority of my time tending to the flowers, vegetables, and fruit trees growing on my property. When the weather doesn't permit such work, I can be found curled up in front of the fire with a cup of tea and classic Stephen King novels. I volunteer with Habitat for Humanity several times a year.

**Mohd Amir**  
**Project Associate**  
**IITR India**