

Florian Shabani

Tirana

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My job as a Surveyor Engineer and Photogrammetric Specialist entails using cutting-edge photogrammetry methods and tools to precisely measure and analyze the topography and surface features of the Earth. In a number of fields, including civil engineering, urban planning, environmental management, and land development, I play a significant role. Here is a brief rundown of my duties and areas of expertise:

Collection of Geospatial Data: I am in charge of gathering geospatial data using a variety of techniques, such as aerial and satellite images, LiDAR (Light Detection and Ranging), and ground-based surveying tools.

I have a specialty in photogrammetry, which is the accurate measurement of terrain and things through the use of images and imaging technology. I use software and algorithms to extract precise measurements, 3D models, and maps from photos.

Topographic Mapping: I produce in-depth topographic maps and models of the surface of the Earth that highlight elevation, land features, and contours. Construction, infrastructure planning, and environmental assessments all depend on these maps.

Surveying and Land Development: To establish property borders and create official land divisions, I carry out land surveys, boundary evaluations, and cadastral mapping. For real estate deals and land development initiatives, this information is essential.

GIS (Geographic Information Systems): I manage and analyze geographic data using GIS software, assisting professionals in numerous industries in making data-related decisions.

Precision and Accuracy: I place a premium on accuracy in my work and make sure that all measurements and data are precise. For the planning, building, and decision-making of infrastructure, this accuracy is essential.

Urban Planning: By giving information on land use, transportation systems, and infrastructure planning, I help cities and communities develop.

Continuous Learning: To offer the most precise and effective surveying and photogrammetric solutions in this ever expanding industry, I keep up with the newest technology and methodologies.

In conclusion, I am committed to gathering, interpreting, and presenting geospatial data with accuracy and precision as a Surveyor Engineer and Photogrammetric Specialist. Numerous applications, ranging from building and land development to environmental management and urban planning, heavily rely on my experience.

Authorized to work in the US for any employer

Work Experience

Road Designer and Photogrammetry Specialist, Wingtra Pilot

Ground International Group - Prishtina

June 2022 to May 2023

I worked as a drone pilot and Photogrammetry Specialist, Wingtra was the drone we used, where I surveyed 360 km of road for land surveying purposes, to extract DTM for road design project, the processing and extraction of the photogrammetry products was done by me using the Bentley package for Reality Modeling such as context Capture, Descartes and Lumen RT.

Also during this period, I have surveyed 200 square kilometers Area for water supply project, also photogrammetry data has been processed by me, different areas surveyed for PV- projects for the benefit of electricity through solar energy, area surveyed for the transmittal road of the electricity etc.

Achivments/TaskField:

- Conducted aerial surveys using advanced drone technology to capture high-quality imagery for various projects.
- Implemented best practices for flight planning, safety, and data collection to ensure accurate and reliable results.
- Processed and analyzed aerial data using photogrammetry software such as Bentley Context Capture, Agisoft Metashape and Pix4D
- Generated 3D models, orthomosaics, and digital elevation models (DEMs) to support project requirements.
- Collaborated with multidisciplinary teams to integrate drone data into GIS and engineering workflows.
- Maintained and conducted routine inspections on drones and related equipment to ensure optimal performance.
- Managed data storage, organization, and archival for future reference and analysis.
- Complied with all FAA regulations and safety protocols to ensure safe and lawful drone operations.
- Conducted pre-flight checks and post-flight inspections on drones and equipment.
- Operated drones to capture aerial imagery for mapping, surveillance, and inspection purposes.
- Processed and analyzed collected data to create accurate Orthomosaics and 3D models.
- Collaborated with clients to define project requirements and deliverables.
- Assisted in the development of standard operating procedures (SOPs) for drone operations.
- Worked closely with surveyors and GIS specialists to integrate drone data into existing systems.
- Trained junior drone operators in flight techniques and data processing

Drone Pilot and Photogrammetry Specialist

InfraPlus - Prishtina

August 2021 to June 2022

I worked as a drone pilot with Intel Falcon 8, where I surveyed 40 km of road for the Middle Ring Project of Pristine, the processing and extraction of the Photogrammetry products was done by me using the Bentley package for Reality Modeling such as Context Capture, Descartes and Lumen RT.

Different areas surveyed for multiple projects.

Dron Pilot and Photogrammetry Specialist

Ground Construction - Prishtina

March 2021 to August 2021

During this time in the company I surveyed 400 km of road for land surveying purposes and 300 square km of area surveying with WINGTRA and Intel Falcon 8.

Surveying of the roads was made for road design projects, where I had the main role in their design (I have great knowledge of AutoCAD Civil 3d), and various surfaces for projects such as PVI -projects for the benefit of electricity through solar energy, projects for ports and water supply.

All the photogrammetry data was processed by me using Bentley Context Capture, Bentley Descartes and Lumen RT as a package of Bentley for 3D modeling and Pix4d (in rare occasions) in combine with pix4d Matic and Pix4d Survey.

Surveyor Technician

GeoSat - Tirana

September 2020 to March 2021

In general, different geodetic measurements for different projects.

Measurement of land for specific projects, low and high constructions, measurement on the road with the aim of realizing the project for their repair, supervision in various projects, marking of buildings, roads, etc.

GIS Specialist

Getec SPA - Berat, Gërokaſter

April 2019 to November 2019

Geotec S.p.A. provides surveying and drilling services to important local authorities, public bodies and geophysical companies such as

CNR, MIUR, ENI, Western Geophysical, CGG (Compagnie Generale de Geophysique), Prakla-SCHLUMBERGER and OGS (Osservatorio Geofisico Sperimentale)

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Achievements/TasksField:

- Data Collection - Gather geospatial data from various sources, including satellite imagery, GPS devices, and existing databases. Conduct field surveys to collect location-specific information.
- Data Management - Organize and maintain GIS Databases, ensuring data accuracy and integrity.
- Map Creation - Creating custom maps using GIS software's to visualize and present geospatial data effectively
- Spatial Analysis - Perform spatial queries and analyses to answer specific geographic questions, calculate distances, areas and volumes, analyze spatial relationships
- Data Integration - Integrate GIS data with other information systems or software for comprehensive analysis
- Geocoding - converting addresses or places names into geographic coordinates for mapping and analysis
- GIS Database Design - Design and create spatial databases to store and retrieve geographic data
- Quality Assurance - ensure data consistency and accuracy across various layers and projects.

Education

Master's degree in Engineering - Surveying

Polytechnic University of Tirana - Tirana

October 2018 to August 2020

Bachelor's in Civil engineer-surveyor

Polytechnic University of Tirana - Tirana

September 2015 to July 2018

Bachelor's

Skills

- Autocad (5 years)

- Autocad Civil 3d (8 years)
- Arcgis (3 years)
- PostgreSQL (Less than 1 year)
- Civil 3D (5 years)
- GIS (5 years)
- CAD (5 years)
- JavaScript
- HTML5
- Civil 3D (5 years)
- Bentley Context Capture (4 years)
- Agisoft (4 years)
- Pix4d Mapper (4 years)
- Bentley Descartes (4 years)
- Virtual Surveyor (2 years)
- Pix4D Matic (2 years)
- Pix4d Survey (2 years)
- Lumen RT (2 years)
- Total Station (5 years)
- GPS (5 years)

Languages

- English - Expert
- German - Beginner

Certifications and Licenses

Certificate for autocad ,map and civil 3d

Present

I followed a course at centre of asvanced skills here in Tirana

Drone Certification

September 2022 to Present

I was awarded with a certificate for excellent professional results in the use of the Falcon 8 drone