AEROGEONIX

COMPANY PROFILE

Our commitment to quality, integrity, and customer satisfaction is evident in every aspect of our operations.

more info
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AEROGEONIX

Aerogeonix is a specialized geospatial, photogrammetry, and telecom engineering services company delivering high-quality outsourcing solutions to clients across the globe. We partner with telecom operators, utilities, engineering consultants, and geospatial firms to support their projects with accurate data, scalable resources, and cost-effective delivery models.

About Us

With strong expertise in GIS mapping, UAV-based photogrammetry, and telecom network design, Aerogeonix provides end-to-end services—from raw data processing to final, client-ready deliverables. Our teams are experienced in handling large-scale projects while maintaining strict adherence to client specifications, industry standards, and quality benchmarks.

In the geospatial domain, we offer comprehensive GIS services including data creation, conversion, migration, spatial analysis, utility mapping, cadastral mapping, and as-built updates. Our photogrammetry services cover the complete UAV data processing lifecycle, including aerial triangulation, point cloud generation, Orthophoto production, DSM/DTM creation, and 3D feature extraction. These services help clients achieve accurate planning, analysis, and decision-making outcomes.

Aerogeonix also plays a key role in telecom engineering support, delivering FTTH/FTTX and OSP design services for fiber network rollouts. Our capabilities include route planning, pole loading analysis, permit and TCP drawings, construction documentation, and as-built updates. We ensure that designs are compliant, constructible, and optimized for real-world deployment.

Quality is embedded into every stage of our delivery process. Aerogeonix follows a multi-level QA/QC framework to ensure accuracy, consistency, and completeness of all outputs. Secure data handling, transparent communication, and timely delivery form the foundation of our client relationships.

By combining skilled professionals, modern tools, and a client-focused mind-set, Aerogeonix positions itself as a reliable offshore partner for organizations seeking dependable geospatial and telecom engineering support. Our goal is to build long-term partnerships by consistently delivering value, precision, and performance.

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YOUR VISION
OUR MISSION

Aerogeonix envisions becoming a globally recognized and trusted partner in geospatial, photogrammetry, and telecom engineering services. Our vision is to empower organizations worldwide with accurate, reliable, and technology-driven spatial intelligence that supports smarter planning, efficient infrastructure development, and sustainable growth.

We aim to continuously evolve with emerging technologies in GIS, UAV mapping, and telecom engineering, setting high standards in data accuracy, quality assurance, and service excellence. By combining innovation, skilled expertise, and scalable delivery models, Aerogeonix strives to be the preferred outsourcing partner for enterprises seeking precision, efficiency, and long-term value.

The mission of Aerogeonix is to deliver end-to-end geospatial and telecom engineering solutions that help our clients achieve operational excellence, cost optimization, and timely project execution. We are committed to providing high-quality GIS mapping, photogrammetry, UAV data processing, and FTTH/OSP design services through structured workflows, advanced tools, and a robust QA/QC framework.

Our mission focuses on building long-term partnerships by understanding client requirements, adhering to global standards, and delivering consistent, accurate, and secure outputs. We emphasize continuous improvement, technology adoption, and transparent communication to ensure every project adds measurable value to our clients' business objectives. Through integrity, reliability, and performance-driven execution, Aerogeonix aims to support infrastructure development and digital transformation across industries worldwide.

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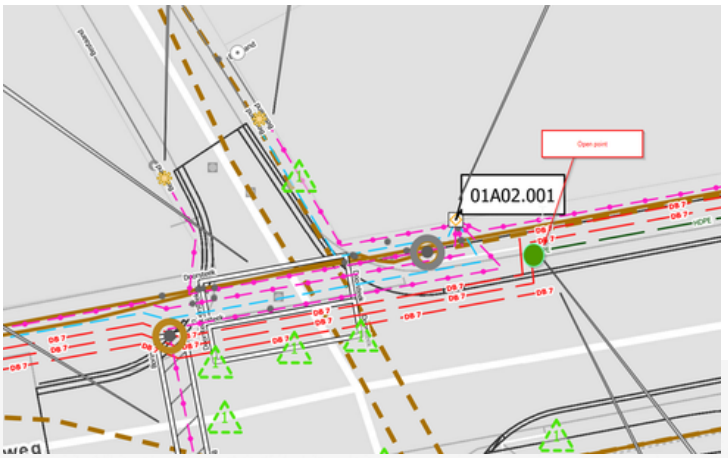
OUR CORE SERVICES

1. GIS & GEOSPATIAL SERVICES

Aerogeonix delivers comprehensive GIS and geospatial services designed to support infrastructure planning, asset management, and decision-making processes. Our team specializes in GIS data creation, conversion, migration, and management across multiple platforms and formats. We develop accurate spatial databases for utilities, telecom, land administration, and engineering projects, ensuring alignment with client-specific standards and global best practices.

Our capabilities include utility and infrastructure mapping, cadastral and parcel mapping, land base development, spatial analysis, and as-built documentation. We support clients throughout the project lifecycle by maintaining up-to-date GIS datasets through redline updates and change management processes. By leveraging advanced GIS tools and structured workflows, Aerogeonix ensures high positional accuracy, data consistency, and reliable outputs that enable efficient planning and operational excellence.

2. TELECOM ENGINEERING SERVICES



Aerogeonix provides comprehensive telecom engineering support services, specializing in FTTH/FTTX and OSP network design. We assist telecom operators, contractors, and engineering firms with route planning, network layout design, and construction-ready documentation. Our services include pole loading analysis, permit drawings, traffic control plans (TCP), and as-built documentation to support fiber network deployment and maintenance.

We ensure that all telecom designs are compliant with local regulations, engineering standards, and client guidelines. Our structured design and review processes help reduce rework, accelerate approvals, and improve construction efficiency. By delivering accurate, well-documented, and optimized designs, Aerogeonix supports successful telecom network rollouts and long-term asset reliability.

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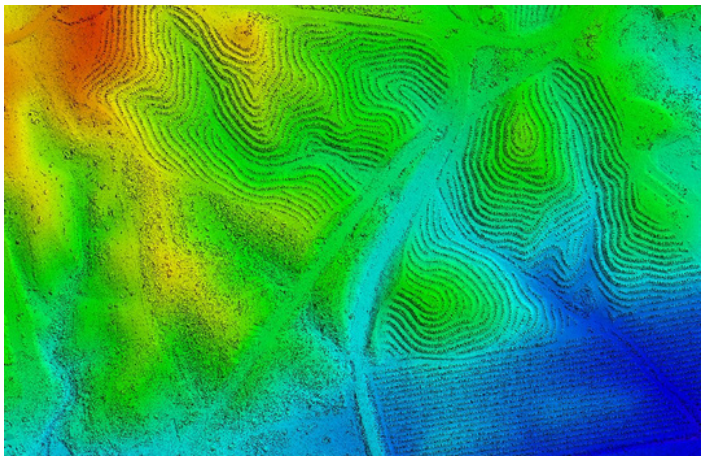
3. LIDAR SERVICES



Aerogeonix provides advanced LiDAR (Light Detection and Ranging) services to deliver highly accurate three-dimensional spatial data for a wide range of geospatial, infrastructure, and engineering applications. LiDAR technology uses laser pulses emitted from aerial or ground-based platforms to measure precise distances to the Earth's surface and objects, enabling the creation of detailed 3D models and high-resolution elevation datasets.

Our LiDAR services support applications such as terrain modeling, corridor mapping, urban planning, utility and telecom infrastructure development, environmental analysis, and asset management. By capturing millions of data points per second, LiDAR enables accurate representation of ground surfaces, vegetation, buildings, and man-made structures, even in complex or densely vegetated environments.

Aerogeonix delivers end-to-end LiDAR data processing and analysis services, including point cloud classification, noise filtering, ground and non-ground separation, and feature extraction. We generate industry-standard deliverables such as Digital Terrain Models (DTM), Digital Surface Models (DSM), contour maps, cross-sections, and 3D visualization outputs. All products are prepared to meet client-specific accuracy requirements and international standards.

Our workflows are designed with a strong emphasis on quality and precision. Multi-level QA/QC processes are applied throughout data processing to ensure positional accuracy, data completeness, and consistency. We utilize modern LiDAR processing tools and proven methodologies to deliver reliable, scalable, and repeatable results for projects of any size.

Aerogeonix supports LiDAR data captured from multiple platforms, including UAV-based LiDAR, airborne LiDAR, and terrestrial LiDAR, enabling flexible solutions tailored to project needs. By combining skilled professionals, advanced technology, and structured delivery models, Aerogeonix helps clients reduce project risks, improve planning efficiency, and achieve accurate, data-driven decision-making.

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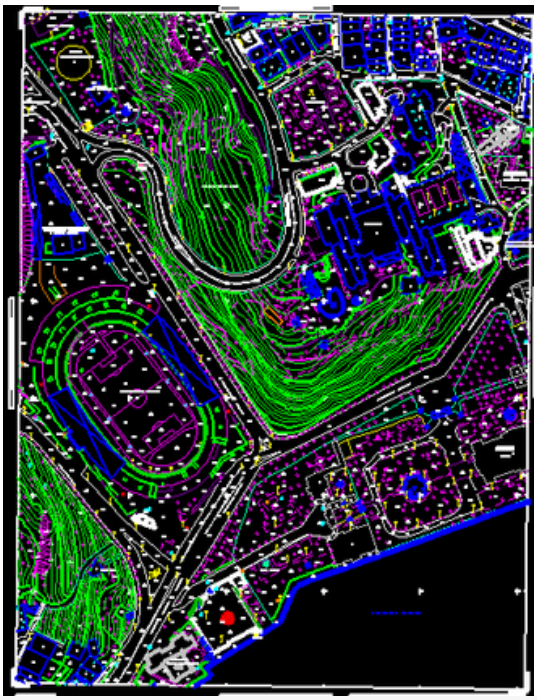
4. UAV / DRONE DATA PROCESSING

Aerogeonix offers specialized UAV and drone data processing services to support high resolution mapping and surveying requirements. We handle the complete UAV data lifecycle, from input data review and processing to final geospatial deliverables. Our services include corridor and area mapping, utility and telecom surveys, and high resolution dataset generation for planning, monitoring, and design applications.

Our UAV processing workflows are optimized for efficiency and scalability, allowing us to manage both small and large datasets without compromising accuracy or turnaround time. By combining technical expertise with structured QA/QC procedures, Aerogeonix ensures reliable, consistent, and project-ready outputs tailored to client requirements.

5. PHOTOGRAMMETRY SERVICES



Aerogeonix provides end-to-end photogrammetry services using UAV and aerial imagery to generate high-accuracy geospatial products. Our photogrammetry workflows include aerial triangulation, point cloud generation, orthophoto production, DSM/DTM creation, and 3D feature extraction. These services support a wide range of applications such as infrastructure planning, corridor mapping, urban development, and asset inspection.

We focus on delivering quality-controlled outputs by applying rigorous processing standards, calibration checks, and validation procedures. Our team works with industry-standard software and proven methodologies to transform raw imagery into actionable spatial intelligence. Aerogeonix ensures that all photogrammetric deliverables meet client accuracy requirements, enabling confident decision-making and precise engineering outcomes.

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6. CAD & ENGINEERING SUPPORT SERVICES

Aerogeonix offers reliable CAD and engineering support services to complement geospatial and telecom projects. Our team provides AutoCAD drafting, digitization, drawing conversion, and as built documentation services for utility, telecom, and infrastructure projects. We support engineering teams by producing precise, well organized drawings that align with construction and regulatory requirements.

Through standardized drafting practices and quality control checks, Aerogeonix ensures clarity, accuracy, and consistency across all CAD deliverables. Our CAD support services enable clients to streamline workflows, maintain accurate records, and enhance coordination across project stakeholders.

7. SOFTWARE DEVELOPMENT SERVICES

At Aerogeonix, we deliver tailored software solutions designed to streamline operations, enhance productivity, and support scalable business growth. Our development approach combines modern technologies with industry-specific expertise to build reliable, high-performance applications.

We specialize in developing web-based platforms, GIS-integrated systems, telecom workflow automation tools, and custom enterprise applications aligned with client requirements. From initial concept and UI/UX design to development, testing, and deployment, we ensure end-to-end delivery with a strong focus on quality, security, and performance.

Our solutions are built to integrate seamlessly with existing systems, enabling efficient data management, real-time insights, and improved decision-making across geospatial, telecom, and infrastructure domains.

END-TO-END DELIVERY MODEL

Aerogeonix follows a structured End-to-End Delivery Model designed to provide seamless, accurate, and reliable geospatial, photogrammetry, UAV, CAD, and telecom engineering services from project initiation to final delivery. Our approach emphasizes efficiency, quality, scalability, and client collaboration, ensuring that each project milestone aligns with client expectations, regulatory standards, and industry best practices

HIGHLIGHTS POINTS

Project Initiation & Requirement Analysis

Every project begins with a comprehensive understanding of the client's objectives, deliverables, timelines, and technical requirements. Aerogeonix conducts detailed requirement analysis workshops, site assessments (if needed), and feasibility studies to define project scope, workflow, and resource allocation. This step ensures clarity and alignment between client expectations and our delivery approach.

Planning & Resource Allocation

Based on the defined requirements, our project management team creates a detailed project plan, outlining timelines, resource assignments, risk assessment, and quality checkpoints. We leverage advanced project management tools and allocate skilled professionals across GIS, photogrammetry, UAV operations, CAD drafting, and telecom engineering domains to ensure optimal efficiency.

Data Acquisition & Field Operations

For geospatial, UAV, photogrammetry, and telecom projects, Aerogeonix conducts precise data collection and field operations using drones, LiDAR scanners, GNSS/GPS systems, and surveying equipment. Safety, compliance, and operational efficiency are strictly maintained during all field activities. Data acquisition workflows are designed to ensure completeness, accuracy, and traceability of raw datasets.

Data Processing & Modeling

Acquired data is processed using advanced GIS, photogrammetry, UAV, LiDAR, and CAD tools to generate actionable insights and client-ready deliverables. Aerogeonix applies rigorous processing standards including point cloud generation, orthophoto creation, DSM/DTM modeling, 3D feature extraction, fiber network design, and as-built documentation. This stage integrates multiple data sources for cohesive and accurate outputs.

Quality Assurance & Quality Control

Quality is embedded into every stage of our delivery model. Our multi-level QA/QC framework ensures accuracy, consistency, and completeness of deliverables. Aerogeonix applies validation checks, standard compliance reviews, and internal audits to guarantee outputs meet client specifications and industry standards before submission.

Client Review & Feedback

Completed deliverables are presented to clients for review. Aerogeonix encourages collaborative feedback sessions to address queries, validate outputs, and incorporate minor adjustments. This iterative approach ensures client satisfaction and alignment with project objectives.

Final Delivery & Support

After validation and approval, final deliverables—including GIS databases, 3D models, photogrammetric outputs, telecom designs, and CAD drawings—are delivered in client specified formats. Aerogeonix also provides post-delivery support, training, and documentation to facilitate smooth integration and usage of outputs.

Continuous Improvement

Aerogeonix emphasizes process improvement and innovation by analyzing project learnings, client feedback, and emerging technologies. This ensures continuous enhancement of workflows, tools, and delivery standards to maintain superior quality and efficiency across all projects.

QUALITY ASSURANCE & QUALITY CONTROL

At Aerogeonix, quality is the foundation of every service we deliver. We understand that in geospatial, photogrammetry, UAV, CAD, and telecom engineering projects, precision, accuracy, and compliance are critical to client success. Our QA/QC framework ensures that all deliverables meet or exceed client expectations, adhere to industry standards, and maintain the highest level of reliability.

HIGHLIGHTS POINTS

Multi-Level Quality Checks

Aerogeonix implements a multi-tiered quality control process at every stage of a project. This includes initial data validation, intermediate review during processing, and final QA inspections before client delivery. By having multiple checkpoints, we reduce the risk of errors, ensure completeness of data, and maintain consistency across all outputs.

Standard Compliance & Accuracy Verification

All our processes are designed to align with international geospatial standards, telecom engineering guidelines, and client-specific requirements. For GIS and photogrammetry projects, this includes positional accuracy checks, topological validation, and attribute verification. For telecom and CAD deliverables, we validate designs against engineering norms, regulatory standards, and constructability requirements.

Advanced Tools & Automation

Aerogeonix leverages modern GIS, photogrammetry, LiDAR, UAV, and CAD software to automate repetitive tasks and detect anomalies early in the workflow. Automated validation scripts, model checks, and digital audits help us maintain high-quality outputs with faster turnaround times.

Continuous Monitoring & Reporting

Quality control is supported by structured monitoring and reporting mechanisms. Our teams document every stage of the QA/QC process, including errors detected, corrective actions taken, and verification results. This ensures transparency, traceability, and accountability for all project deliverables.

Team Expertise & Training

Our QA/QC process is backed by a team of experienced professionals trained in geospatial, photogrammetry, UAV, and telecom engineering domains. Continuous skill development, adherence to best practices, and knowledge sharing help maintain high-quality standards consistently across projects.

Client Collaboration

Aerogeonix emphasizes collaborative quality assurance. We engage clients during validation stages, incorporate feedback, and ensure that deliverables are aligned with expectations. This iterative process guarantees that the final outputs are not only accurate but also practical and implementable.

Continuous Improvement

QA/QC at Aerogeonix is a dynamic process. We analyze project learnings, incorporate client feedback, and adopt emerging technologies to improve workflows continuously. Our goal is to enhance accuracy, efficiency, and client satisfaction with every project.

Tools & Technologies

ArcGIS, QGIS, AutoCAD, AutoCAD Map 3D, Global Mapper, Pix4D, Agisoft Metashape, and other industry-standard platforms.

1. Experienced Professionals
2. End-to-End Services
3. Quality Assurance & Compliance
4. Cost-Effective & Scalable Delivery
5. Advanced Tools & Technology
6. Client-Centric Approach
7. Global Reach, Local Expertise
8. Innovation & Continuous Improvement

Why Us

Aerogeonix is your trusted partner for geospatial, photogrammetry, UAV, CAD, and telecom engineering services, delivering precision, efficiency, and scalable solutions to clients worldwide. Choosing Aerogeonix ensures that your projects are handled with the highest level of expertise, technology, and quality control.

CONTACT US..

Aerogeonix – Your Trusted Partner in Geospatial & Telecom Engineering

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