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General Surveying Services Co.

COMPANY PROFILE

Surveying Mapping 3D Technology



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The Company

The Future in Survey Solutions & Applications

Established in 1996, General Surveying (GSS) is a leading company with operational offices in Lebanon and Saudi Arabia, with unprecedent success in terms of Topography, Under Ground Utility Mapping (GPR), 3D Laser Scanning BIM, 3D documentation & visualization and capable to accurately deliver as-built engineering drawings.

GSS is an Authorized Distributor of the German 3D Laser Scanning FARO Technology in Lebanon and Jordan, as well as resellers in Saudi Arabia.



Our Clients are Architects, Civil Engineers, Real Estate Professionals, Urban Regional Planners, Municipalities, Developers, Landscape Designers, Various Industries, Private Landowners, Corporate Clients, Universities and Consultants.



About Us

Our company has vigorously pursued a policy of building a highly professional and proficient infrastructure; recruiting experienced field staff and qualified management personnel from various countries, and purchasing "state-of-the-art" survey equipment and survey software – in order to meet all the needs of all clients.

Today, the company, with young and and professional management and a large pool of technically competent and widely experienced employees trained to the highest standard, is well-equipped and ready to offer a complete range of specialized survey services to the construction, civil and oil & gas industries in the

Our Mission

Re remain true to the same prinples on which our company
has founded 25 years ago: proIding superior service to our clints, putting safety first creating
pportunities for our engineers,
elivering exceptional work and
eep up with changing technolov.

Our Services

General Surveying Services provides a variety of professional applications for both the private and public sector with unique tailored solutions for our clients. General Surveying Services goes beyond conventional surveying and offers professional services, with the primary focus on 3D laser scanning, that are often overlooked in the industry.



Our Team

Multidisciplinary Experts

We are working closely with our clients, maintaining our quality output and ensuring they receive the best practice through our expert team and by utilizing the latest technology in regard of software and instrumentation.

GABY S. LAHOUD Founder & CEO

DANIEL DIACON
Business Development Manager

RABIH S. AKIKI Survey Manager

JOSEPHINE S. ABBOUD Project Manager We are satisfying our client's needs by delivering exceptional work and let our clients to benefit from our highly-trained engineer's experiences

Our company has vigorously pursued a policy of building a highly professional and proficient infrastructure; recruiting experienced field staff and qualified management personnel from various countries, and purchasing "state-of-the-art" survey equipment and survey software – in order to meet the needs of all clients within their timeframe.



Conventional Surveying Services



3D Laser Scan to BIM Solutions



GPR(Ground Penetration Radar)Services



FARO Laser Instruments Sales & Services

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Conventional Surveying Services

General Surveying Services celebrates its 25 years of transparent services





Topographic Maping Surveys

Cadastral Surveys

Construction Layout and Staking Surveys

Master Planning Support Surveys

Control Monument Network Establishment

Survey for the purpose of as built drawings to: Building Roads, Water Pipes, Fuel Pipies, Phone and Electrical Lines, etc...

Survey for the purpose of earth works, construction, fil, & cut and all types of ditches, manholes and underground.

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GPS (Global Positioning System)

When flexibility is needed in terms of satellite networks, ruggedness of hardware, great precision and right accessories for the job, GSS is providing the range, the power and low latency that ensures success with the most exacting standards of data quality. Equipment is carefully selected to match and surpass high expectations of a busy professional.



Precision & Spirit Levels

GSS also owns several auto and digital levels instruments. This type of level reduces the chance of human error when interpreting graduation marks, and a digital display ensures accurate readings. When job sites need fast and accurate height determinations, precision digital leveling equipment serves as valuable time-saving technology.



Total Stations

General Surveying Services is well-equipped with the latest electronic Total Stations (including all necessary survey accessory items; tripods, tribraches, targets, prisms, etc.)., specially designed for measuring of slant distances, horizontal and vertical angles and elevations in topographic and geodetic works, tachometric surveys, as well as for solution of application geodetic tasks.

GPR (GROUND PENETRATION RADAR) Services

Concrete scanning, also known as concrete x-ray, with ground penetrating radar (GPR) is a geophysical technique that uses radar pulses to nondestructively investigate concrete, earth, and other media.

It is used to locate and map the positions of metallic and non-metallic materials such as rebar, post-tensioning cables, conduit, metal and plastic pipes, electrical cables, and other near-surface anomalies and objects in concrete.



GPR Surveying Services

For instance, post-tension cable, rebar, conduit, pipes, fiber optic cables and air voids can all be identified using the 3D imaging capabilities of GPR. Determining the location and depth of these objects within concrete structures is crucial before cutting, drilling or coring.



The Process

This system uses radar and electromagnetic waves to scan the entire area and locate any questionable subsurface materials by sending a unique return signal to the technician operating the ma-



Strategic and Tactical

Extensively trained in using this innovative technology, our GSS crew is ready to explain their findings and evaluate the potential risk of any sub-level materials to help determine next steps and subsequent project planning.



Our GPR scanning services are highly recommended for any type of commercial, residential or municipal projects



A concrete "x-ray" survey or GPR is a geophysical process that uses a pulsating wave of radar to cut through the top surface of the concrete instead of actually penetrating



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One of the main uses of GPR is locating anomalies in concrete buildings, bridges, and other structures. For instance, post-tension cable, rebar, conduit, pipes, fiber optic cables and air voids can all be identified using the 3D imaging capabilities of GPR. Determining the location and depth of these objects within concrete structures is crucial before cutting, drilling or coring.

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Renderings

3D Models high-end ren-

derings using specialized

software

3D LASER SCANNING TO BIM SOLUTIONS

General Surveying Services provides a variety of professional applications for both the private and public sector with unique tailored solutions for our clients.

Precise laser scanning survey ensures that the final as-built condition fit design intent and minimizes the chance of potential problems;



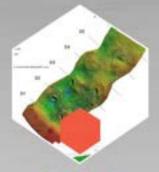
Monitoring

Seamless capture and monitoring of construction progress for legal and technical documentation;



Flatness and Level Checking

Quality Assurance (QA) and Quality Control (QC) management tools to perform accurate full measurements

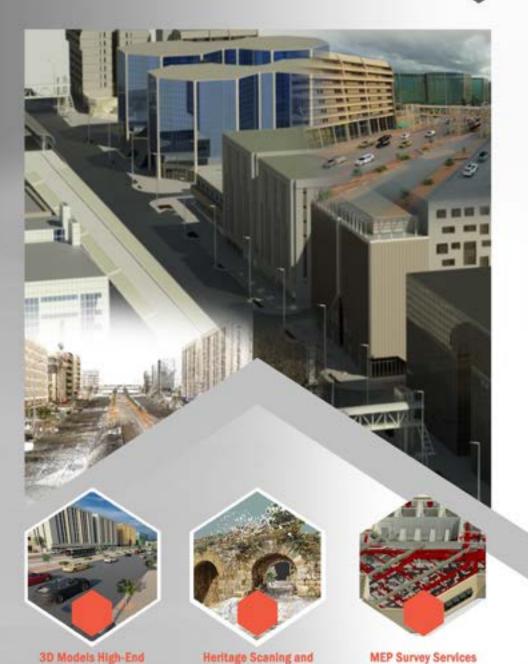


Data Analysis

Contour maps, elevation maps, deflection, deviation & alignment analysis and detailing:

99

Quality Assurance (QA) and Quality Control (QC) management tools to perform accurate full measurements continuously throughout the build process and immediately find discrepancies. Such early detection enables architects and contractors to produce higher quality projects while saving time and money since errors are minimized and rework cost is subsequently reduced:



Preservation

Capturing & Archeological

site works

MEP

modeling:

documentation,

as-built survey and 3D

GSS Services

FARO LASER INSTRUMENTATION SALES & RENTING SERVICES

"FARO® is the leading global source for 3D measurement, imaging and realization technology for 3D Metrology, AEC (Architecture, Engineering and Construction) and Public Safety Analytics.

in Appropriated Distribmed on the German 3D Laser complete EARS arechnology at the Michael Jordan, as medical Transfers, in Cauch

Rent



FARSON OF THE STATE OF THE STAT

Sales

FOCUS S70

With the help of FARO's instrumentation & software it can be provided 3D solutions for as-built data capturing and 3D visualization of architecture, engineering and construction projects that allow AEC professionals to quickly and accurately extract desired 2D and 3D documentation and deliverables.

FARO® PRODUCTS

FOCUS S 150/150 PLUS FOCUS S 350/350 PLUS

FARO FOCUS SWIFT FARO® Freestyle 2 The FARO® ScanArm

GSS is providing FARO Renting Services covering a wide range types of scanners. For more details regarding range prices, types of applications, technical support and rental period, kindly contact us at your convenience at info@gsssurveying.com.

More than 1500 completed surveying projects.

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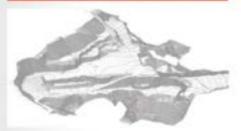


25 Years of Experience

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DTM Contour and V-Calculation



Digital terrain models (DTMs) acquired from airborne laser scanning (ALS) are available for many mountainous regions. ALS has the capability to penetrate high vegetation, hence high-resolution DTMs can be derived even in forested areas.

Cadastral and Road Surveying



Cadastral surveying is the sub-field of cadastre and surveying that specialises in the establishment and re-establishment of real property boundaries. It is an important component of the legal creation of properties. Architecture and Civil Engineering

Facility Management

Heritage Oi

MORE THAN 1500 COMPLETED SURVEYING PROJECTS

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LASER SCANNING AS-BUILT SURVEY | FAÇADE INSPECTIONS | 3D MODEL

Cohesive colorful point cloud acquired with FARO Focus S350



Revit As-built 3D Model



HERITAGE SCANNING PROJECTS



Zbeideh Aqueducts



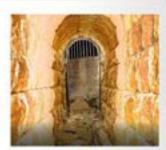
Archeology



Cornet Chehwan



Zbeldeh Aqueducts



Falougha



Falougha

Revit Model, Isometric View Pre-render



3D Model Full Render

