

# STRATEGIC GEOSPATIAL SOLUTIONS, LLC

CONFIGURING CONFIDENT DECISION MAKING THROUGH DEPENDABLE, SUSTAINABLE SOLUTIONS

## Howard S. Hodder, Jr., MGIS, GISP

President / CEO – [hhodder@s2geo.com](mailto:hhodder@s2geo.com)

**Mr. Hodder** is Founder of Strategic Geospatial Solutions, LLC. With over two decades of experience in the Geographic Information System (GIS) industry, he brings extensive knowledge, experience and relationships to his partners and clients.

During his career, Howard has been involved with varying aspects associated with the development, implementation and support of geospatial solutions for private and public sector (local, state, federal) clients. His experience with GIS extends across many disciplines and platforms relating to survey and remote sensing (i.e. GNSS, photogrammetry, LiDAR, etc.), and with civil engineering in support of tasks related to water, wastewater, stormwater, municipal management, transportation, planning and financial services.

### AREAS OF EXPERTISE AND EXPERIENCE

- GIS Design, Implementation, & Training
- Enterprise GIS Design & Implementation
- Enterprise Geodatabase Management
- Database Design, Data Entry, & Implementation
- Infrastructure Asset Management
- Web-Based GIS Services (Customized System Development, ArcGIS Online Implementation)
- Custom Tool and Application Development
- Solutions Integration (Billing, document management, etc.)
- Field Data Collection (Mobile GIS & GNSS/GPS)
- Facility Management
- Utility Management & Modeling
- Sign Inventory & Management
- Roadway & Pavement Management
- Watershed Planning & Analysis
- Remote Sensing – Photogrammetry, LiDAR
- Base Mapping Development
- Stormwater Utility / Authority Implementation
- United States Army Corp of Engineers (USACE) Contracting and Support

### PROJECT EXAMPLES *(Reverse Page)*

### CONTACT INFORMATION

Strategic Geospatial Solutions, LLC  
27 Cumberland Estates Drive  
Mechanicsburg, Pennsylvania 17050

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### Education

- MGIS, Master of Geographic Information Systems, The Pennsylvania State University
- B.A., Geography and Environmental Planning, Bloomsburg University
- GIS Certificate, The Pennsylvania State University

### Certifications

- Certified Geographic Information Systems Professional (GISP)

### Affiliations & Involvement

- Pennsylvania State Geospatial Coordinating Board
- Management Association for Private Photogrammetric Surveyors – PA Chapter (PA-MAPPS)
- PAGIS Conference Committee
- Pa State LiDAR Working Group Member
- AWWA IT Advisory Committee
- Pennsylvania Mapping and Geographic Information Consortium (PaMAGIC)
- American Public Works Association (APWA) – Lancaster, PA Chapter
- HACC - Curriculum Advisory Committee
- Harrisburg University – Curriculum Advisory, Corporate Faculty
- Mid Atlantic Chapter of the Urban Regional Information Systems Association
- Leadership Harrisburg Area – Class of 2011
- Central Pennsylvania Business Journal – Forty Under 40 – Class of 2016



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## PROJECT EXAMPLES

**Wyoming Valley Sanitary Authority (WVSA)** – Geomatics lead responsible for the Impervious Surface Area (IA) dataset development and analysis in support for the first regional stormwater fee and stormwater authority implementation in Pennsylvania. Howard coordinated the team responsible for a sole source ~\$1.4 million contract with WVSA for the collection and processing of ~400 square miles of 50 scale, 3 inch orthophotography and QL1 LiDAR, and ~256 square miles of classified IA mapping. Howard was also team lead and contract coordinator in support of the WVSA / USACE partnership development. This support agreement/partnership assists WVSA with a 50/50 cost share in the development of regional stormwater asset inventory and assessment.

**York County Stormwater Program** – Project lead and contract coordinator in support of the YCPC / USACE partnership development. This multi-year support agreement/partnership assists York County with a 50/50 cost share in the development of a County-wide stormwater program, the first in Pennsylvania. Initial contracting partnership consisted of funding to support pollution reduction planning (PRP) and has continued and expanded with additional tasks including data evaluation, analysis, compilation and enhancement.

**Pennsylvania State University Branch Campus Utility Asset Inventories** – Project manager responsible for the development/configuration and population of an ESRI-based enterprise level geodatabase in support of the various utility infrastructure networks located on PSU's branch campuses. Level B and level A Subsurface Utility Engineering (SUE) techniques and methodologies were deployed to designate the precise locations of the various underground utilities, and high accuracy survey methodologies (i.e. conventional survey and GNSS) were utilized for the collection of the assets. ArcGIS Online (AGOL) was also deployed for field attribution of assets and overall project coordination.

**Capital Region Water (CRW)** – Assistant project manager and Geomatics team lead responsible for the development/configuration and population of an Enterprise Asset Management Solution in support of the potable water, sanitary sewer and stormwater infrastructure networks owned/operated by CRW. The project included complete GIS planning and implementation including hardware/software/solution selection and implementation, and full base map development. Level B and level A Subsurface Utility Engineering (SUE) techniques and methodologies were deployed to designate the precise locations of the potable water network, and high accuracy survey methodologies (i.e. conventional survey and GNSS) were utilized for the collection of the assets. A web based GIS solution was deployed for overall project coordination and transparency with the client.

**Private K-12 School Campus Management** – Project manager responsible for the development/configuration and population of an ESRI-based enterprise level GIS in support of the operations and maintenance of a large Trust-based K-12 school whose property holdings span over 9,000 acres in Dauphin, Lancaster and Lebanon Counties. The project initialized in 2007 with complete base mapping (i.e. low-level, high resolution orthophotography and full planimetrics), hardware / software procurement, and solution configuration/ implementation; and has grown to include utility asset inventories, mapping updates and enhancements, and continued technical support.

**Asset Inventory and Management** – Project manager responsible for an expansive list of municipal asset inventories, and associated asset management solution implementations, for municipalities/authorities of various sizes and complexities.