

John V. Hamilton

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EXPERIENCE

John Hamilton is a Geodetic Engineer with more than 40 years of field and office experience. He began his career with the US Army Corps of Engineers Pittsburgh District as a survey technician, moving from rodman to party chief in a few years. During this time Mr. Hamilton attended the University of Pittsburgh and later Purdue University, graduating with honors in 1986 with a Bachelor of Science degree in Civil Engineering, majoring in Geodesy with minors in Transportation and Soil Mechanics. He has since taken graduate level courses in LiDAR, Geodetic Astronomy, Satellite Geodesy, Least Squares Adjustments, and Land Survey Systems.

Since receiving his undergraduate degree, John has worked exclusively in the field of engineering surveys, performing various types of high accuracy surveys such as dam deformation surveys, precise leveling, control networks, hydrographic surveys, Terrestrial Laser Scanning (TLS) and has developed numerous software programs to aid in office processing and reduction of data intensive projects. He has planned, performed, processed, and submitted dozens of GPS and leveling projects to the National Geodetic Survey for inclusion in the National Spatial Reference System (a process known as bluebooking). GPS Projects submitted have ranged in size from a single point up to 450 points covering a large county. Leveling projects submitted include small one point projects up to a 130 mile level line.

He also has offered as a service the reduction, processing, and adjustment of both conventional and GNSS data collected by others. This has enabled him to have a deep understanding of the raw data types and the problems associated with analysis of such data when mixing technologies.

John is a past president of the American Association for Geodetic Surveying and, since 2006, has served as the US delegate for Commission 6 (Engineering Surveys) to the International Federation of Surveyors (FIG). He has presented numerous workshops and classes at National and International Conferences on a variety of geodetic topics such as State Plane Coordinates, Electromagnetic Distance Measurement (EDM), GPS and GNSS, Deformation Surveys, and Least Squares Adjustments. He is fluent in Spanish and English.

EDUCATION

- **Purdue University**, Bachelor of Science in Civil Engineering, 1986
- **Instituto Tecnológico y de Estudios Superiores de Monterrey**, Mexico, 3 semesters in undergraduate Civil Engineering program as part of exchange program with University of Pittsburgh
- University of Pittsburgh, undergraduate studies in Civil and Electrical Engineering
- Northern Virginia Graduate Center, graduate coursework in Geodetic Engineering