

**Land Surveying; Dream, Create,
Design, & Build**

“You can dream, create, design
and build the most wonderful place
in the world, but it requires people
to make the dream a reality.”

Walt Disney



*Rhode Island Society of Professional
Land Surveyors
Surveying for a Better Tomorrow*

*Do your students use cell phones that
have Blue Tooth Technology ?*

*Are they interested in GPS-like
equipment?*

*Do your students enjoy math, science
or history?*

*If you answered YES to any of these
questions then maybe a career in
LAND SURVEYING is for them!*



Rhode Island Society of Professional Land Surveyors
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Land Surveying, A Career with a future!

www.rispls.org

History of Land Surveying



Egyptians were among the earliest Land Surveyors. Nearly 3,000 years before Christ,

www.museum.upenn.edu/stevephillips.gif

the fertile land along the Nile was divided into quadrangles by the Kings, and distributed among the people. The people were then taxed for their land. When the great river flooded, the size of the parcels of land changed. The King then sent out his Land Surveyors, who would measure the boundaries and the taxes would be adjusted accordingly. The measuring device used by these surveyors was a knotted rope, which had been stretched and soaked with bees wax.



Traditional / Conventional Survey

Surveying is the measurement of



dimensional relationships among points, lines, and physical features on or near the Earth's surface. Basically, surveying



determines horizontal distances, elevation differences, directions, and angles. These basic determinations are applied further to the computation of areas and volumes and to the establishment of locations with respect to some coordinate system.

www.rispls.org
www.landsurveyor.us

G.P.S / Construction Land Surveying

Precise satellite-based navigation and location system originally developed for

U.S. military use. GPS is a fleet of more than 24 communications



satellites that transmit signals globally around the clock. With a GPS receiver, one can quickly and accurately determine the latitude,



the longitude, and in most cases the altitude of a point on or above Earth's surface. A single GPS

receiver can find its own position in seconds from GPS satellite signals to an accuracy of one meter.

G.I.S

A geographic information system (GIS) is a system for capturing, storing, analyzing and



managing data and associated attributes which are spatially

referenced to the earth. In the strictest sense, it is a computer system capable of integrating, storing, editing, analyzing, sharing, and displaying geographically-referenced information. In a more generic sense, GIS is a tool that allows users to create interactive queries (user created searches), analyze the spatial information, and edit data. Geographic information science is the science underlying the applications and systems, taught as a degree program by several universities.

Laser Scanning

A 3D scanner is a device that analyzes a real-world object or environment to collect data on its shape and possibly color. The collected data can then be



used to construct digital, three dimensional models that are used in a wide variety of applications. These devices are used extensively by industry in the production of such things as movies and video games. Other applications include industrial design and prototyping, computer vision and documentation of cultural artifacts.