

Automated GPS Machine Control

What is it?

Automated GPS Machine Control has combined two advanced technologies and has made them easy to utilize for your next construction project. Satellite positioning and 3D terrain models are being utilized on all types of earth moving equipment. The combined process has become known as Automated GPS Machine Control.

Advancing technology GPS construction methods have introduced Automated Machine Control to the construction industry. Earthwork machinery (bulldozers, excavators, graders, etc.) are fitted with GPS equipment to accurately position itself within the project site. This machinery is uploaded with 3d design models allowing an operator to guide the implement without any survey stakes, thus increasing productivity while minimizing waste and material.

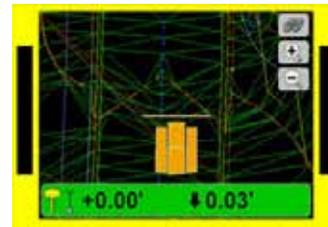
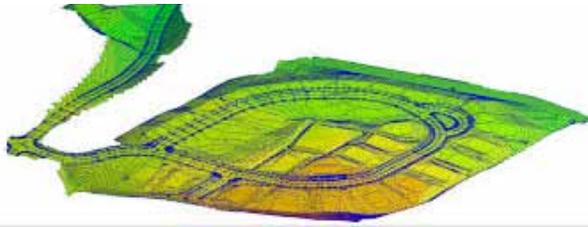
Foit-Albert can provide professional services to support Automated GPS Machine Control such as initial survey control verification, construction GPS site calibration, prepare and upload 3D design machine control models. We can also provide support to your site surveyor for model verification, stakeout support and independent as-built verification.

We utilize the latest software platforms such as Carlson, Topcon and Trimble to ensure seamless data preparation and conversion for your equipment.

For more information please contact:

Michael J. Pohl, PLS
Vice President of Survey
716.856.3933
mpohl@foit-albert.com

Brian Skalman, PLS
Project Surveyor
716.856.3933
bskalman@foit-albert.com



BUFFALO
763 Main Street
Buffalo, NY 14203
(716) 856-3933

ALBANY
435 New Karner Road
Albany, NY 12205
(518)452-1037

NYC
215 West 94th Street
New York, NY 10025
(212) 372-4813

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Firm Overview

Foit-Albert Associates is a full-service architecture, engineering and surveying firm that integrates quality design, functionality, and practicality so that the final product meets our clients' objectives and is an extension of its natural surroundings. Our design teams, working through three key offices, have won more than 20 local, state, and national design awards, which is a testament to the quality of work we provide to all of our clients.

The architectural group brings extensive experience in the design of new building structures and the rehabilitation and restoration of current facilities. Our client list includes representatives of the private and public sector, and encompass commercial, institutional, federal, state, municipal and industrial projects. Project types include educational facilities, institutional facilities, sports and recreational facilities, museums, theatres, libraries and visitor's centers as well as multi-family and student housing projects. We also have historic preservation specialists and a certified code-enforcement official.

The engineering group provides services for a variety of local, state, and federal government and private clients. Project types include bridges, highways, roads, intersections, parks, trails, multi-use paths, stormwater management, environmental engineering, water systems, sewer systems, parking lots, and planning board review projects.

The surveying group handles professional land surveying needs for commercial and residential clients. Our expertise ranges from boundary surveys, ALTA/ACSM Land Title Surveys, 1A and 2C survey and certification of wireless telecommunication facilities to topographic surveys and high definition laser scanning for architectural and engineering support. Foit-Albert's survey field crews are equipped with current state-of-the-art equipment supported by CADD graphic workstations.



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