

Best Practices for Network Solutions with Carlson's GNSS RTK Systems

A Virtual Webinar Using Carlson SurvNet – Learn Best Practices for GNSS RTK Networks

This webinar led by Carlson Software's Doug Hoberg covers best practices for using GNSS and RTK systems in surveying workflows. It focuses on establishing accurate control networks, integrating GPS and EDM data, and performing least-squares adjustments using Carlson SurvNet.

Key Topics:

- GNSS/RTK field procedures and accuracy considerations
- Establishing and verifying control networks
- Using Carlson SurvNet for traverse adjustment and network analysis
- Managing standard errors, redundancy, and blunder detection
- Generating ALTA/NSPS relative positional accuracy (RPA) reports

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Doug Aaberg on 01/27/2022.

That CAD Girl

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Annotation for Surveyors

A Virtual Webinar Using Carlson Software – Learn Survey Annotation Tools

This webinar, Annotation for Surveyors, presented by Carlson Software's Doug Oberg, provides a detailed walkthrough of annotation tools and best practices in Carlson CAD software. The

session covers area labeling, bearings and distances, curve annotation, and automation techniques for efficient survey drafting.

Key Topics:

- Annotation setup and configuration in Carlson Software
- Labeling areas, bearings, distances, and curves
- Using Auto Annotate and Lot Network tools for automation

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This session was presented by Doug Aaberg on 03/24/2022.

All About Coordinates in Carlson Software

A Virtual Webinar Using Carlson Software – Learn Coordinate System Fundamentals

This webinar, hosted by That CAD Girl and presented by Carlson Software's Doug Oberg, explores the fundamentals of coordinate systems used in surveying and CAD workflows. It covers

ellipsoids, geoids, datums, scale factors, and Carlson tools for managing grid-to-ground conversions and projections.

Key Topics:

- Coordinate system fundamentals (ellipsoid, geoid, state plane, grid vs. ground)
- Scale factors and combined scale factor calculations
- Carlson Software tools for coordinate management and projection setup
- Upcoming datum and unit changes (NAD 2022, low-distortion projections, U.S. survey foot retirement)
- Practical applications for surveyors using GPS, RTK, and CAD integration

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This session was presented by Doug Aaberg on 09/08/2022.

Process and Adjustments in the Edit-Process Raw Data Editor

A Virtual Webinar Using Carlson

Survey – Learn Raw Data Adjustments

This webinar, led by Doug Oberg from Carlson Software, provides an in-depth walkthrough of processing and adjusting survey data using the Edit Process Raw Data Editor in Carlson Survey. Attendees learn how to manage raw data files, perform compass rule adjustments, handle GPS integration, and troubleshoot common field-to-office workflows.

Key Topics:

- Using the Edit Process Raw Data Editor in Carlson Survey
- Managing RW5 raw data files and import formats
- Compass rule and angle balance adjustments
- Integration of GPS and total station data
- Troubleshooting, checkpoints, and reporting settings

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This session was presented by Doug Aaberg on 08/16/2023.

Understanding Changes to Projections and Zones in

Carlson 2024

A Virtual Webinar Using Carlson Software – Learn to Manage Projection Zones

This webinar, hosted by That CAD Girl and presented by Carlson Software's Doug Oberg, explains the updates to projection and zone settings introduced in Carlson 2024. It clarifies the purpose of new prompts, datum realizations, and configuration options to help surveyors transition smoothly to the latest version.

Key Topics:

- Changes to projection and datum settings in Carlson 2024
- Understanding NAD83 realizations and EPSG codes
- Lat/Long transformation toggle and its implications
- Backward compatibility and upgrade recommendations
- Future improvements planned for Carlson 2025

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This session was presented by Doug Aaberg on 03/21/2024.

Overview of Carlson Point Clouds

A Virtual Webinar Using Carlson Software – Learn to Process Point Clouds

This Carlson CAD Solutions webinar, led by Doug Oberg, provided a detailed overview of Carlson Point Clouds software, demonstrating how surveyors can use it to process, clean, and extract data from LiDAR and drone-based point clouds. The session covered both basic and advanced modules, including workflows for creating surfaces, extracting features, and integrating with CAD.

Key Topics:

- Introduction to Carlson Point Clouds and workflow integration with CAD
- Importing and managing LiDAR and drone data
- Creating bare earth models and virtual surveys
- Feature extraction tools (curbs, sidewalks, parking lines)
- Field-to-finish and surface modeling techniques

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This session was presented by Doug Aaberg on 10/24/2024.