

Intro to Carlson Surfaces, Centerlines and Profiles

A Virtual Webinar Using Carlson Software – Learn to Build Surfaces and Profiles

This webinar provides a comprehensive introduction to building and managing surfaces, centerlines, and profiles in Carlson Survey and Civil. Participants learn best practices for configuration, surface modeling, breaklines, field-to-finish automation, and profile creation for road and utility design.

Key Topics:

- Building and validating surface models (TINs and contours)
- Using shrink-wrap boundaries and non-surface points
- Creating and editing centerlines (CL files)
- Generating and labeling profiles (existing, proposed, and utilities)
- Importing, merging, and inspecting surfaces from Google Earth or USGS

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This session was presented by Jennifer DiBona on 07/16/2024.

That CAD Girl

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2024 Virtual Workshops – Session #2-1 Recorded 11/20/2024

This session from the 2024 Virtual Workshops features Bruce Carlson demonstrating advanced hydrology workflows using Carlson Precision 3D and IntelliCAD. The presentation covers terrain modeling, watershed analysis, culvert design, and dynamic CAD integration for civil engineering and land development professionals.

Key Topics:

- Working with DGN and DWG files in Carlson and IntelliCAD
- Terrain modeling and hydrology setup in Precision 3D
- Automatic watershed and runoff coefficient calculation
- Culvert and storm sewer design with dynamic CAD updates
- Channel lining, headwalls, and stormwater flow analysis

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This session was presented by Bruce Carlson on 11/20/2024.

2024 Virtual Workshops – Session #1-4 Recorded 11/9/2024

This Carlson Software virtual workshop, led by Mark Long, provided an in-depth overview of civil design and hydrology workflows using Carlson Civil and Hydrology modules. The session covered surface modeling, roadway design, storm drainage, and sanitary sewer network creation, highlighting practical tools and new features in the 2025 release.

Key Topics:

- Civil design fundamentals and surface modeling
- RoadNet and roadway profile creation
- Hydrology and storm sewer network setup
- Sanitary sewer design automation
- Integration of pre- and post-construction surface models

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This session was presented by Mark Long on 11/19/2024.

2024 Virtual Workshops – Session #1-3 Recorded 11/19/2024

This Carlson Software virtual workshop focused on using Carlson Point Cloud and Photo Capture tools to process drone and LiDAR data for surveying and mapping. Doug demonstrated workflows for creating, cleaning, classifying, and extracting data from point clouds to produce accurate surfaces, contours, and CAD deliverables.

Key Topics:

- Carlson Photo Capture (cloud and standalone versions)
- Importing and managing LAS point cloud data
- Bare Earth filtering and classification
- Creating coordinate points, polylines, and surfaces
- Automated feature extraction (curbs, parking lines, paint stripes)
- Integration with CAD and field-to-finish workflows

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This session was presented by Doug Aaberg on 11/19/2024.

2024 Virtual Workshops – Session #1-2 Recorded 11/19/2024

This virtual workshop, led by Doug Oberg of Carlson Software, provided a detailed walkthrough of the Carlson GIS module, demonstrating how to import, manage, and utilize public GIS data within Carlson Survey and Civil. The session also covered creating GIS feature files, collecting field attributes, and integrating imagery and LIDAR data to enhance survey projects.

Key Topics:

- Importing and configuring GIS data in Carlson Survey and GIS modules
- Creating feature and database files for attribute collection
- Using public data sources (MassMapper, NOAA LIDAR, FEMA, soils, wetlands)
- Labeling and managing GIS attributes in drawings
- Integrating Google Earth and GeoMap imagery
- Field data collection with Carlson SurvPC and Field-to-Finish setup

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This session was presented by Mark Long on 11/19/2024.

2024 Virtual Workshops – Session #1-1 Recorded 11/19/2024

This session kicked off the 2024 Virtual Workshops hosted by That CAD Girl, providing an introductory overview of Carlson Software and its CAD environments. The training covered setup, configuration, data management, and practical demonstrations of key Carlson tools for survey, civil, and land development workflows.

Key Topics:

- Carlson Software overview and interface setup
- IntelliCAD vs. AutoCAD platform options
- Managing configuration and project folders
- Importing Civil 3D and LandXML data
- Deed entry, lot layout, and subdivision design
- Field-to-Finish workflows and surface modeling

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This session was presented by Jennifer DiBona on 11/19/2024.

Grading Tips & Tricks in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Improve Grading Workflows

This webinar provides a comprehensive walkthrough of grading workflows in Carlson Software, focusing on site grading, building pads, retaining walls, and surface modeling. Attendees learn practical tips for using Carlson Civil and related modules to efficiently create, edit, and balance grading designs.

Key Topics:

- Building pad creation and elevation methods
- Using 3D Polyline Offset, Design Pad Template, and Surface Inspector
- Volume calculations and cut/fill color maps
- Retaining wall modeling and surface merging
- 2D-to-3D Polyline conversion and labeling techniques

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This session was presented by Jennifer DiBona on 05/22/2024.

Designing in Steep Terrain with Carlson Civil

A Virtual Webinar Using Carlson Software – Learn to Design Steep Terrain Roads

This webinar, *Designing in Steep Terrain with Carlson Civil*, presented by Travis Maxwell, explores practical techniques for designing roads and grading projects on steep slopes using Carlson Civil's RoadNET tools. It covers terrain modeling, template setup, drainage considerations, and workflow optimizations for mountainous or hilly environments.

Key Topics:

- Road design strategies for steep terrain
- Carlson Civil RoadNET templates and transitions
- Surface modeling and grid optimization
- Drainage and erosion control on steep slopes
- Practical grading and construction considerations

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This session was presented by Travis Maxwell on 01/29/2024.

Deeds of Lots and Lots of Lots in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Manage Property Deeds

This webinar demonstrates how to create, edit, and manage property deeds and lot layouts using Carlson Survey and Carlson Civil. It covers deed entry, correlation with field data, legal description generation, and automated lot design through the Lot Network module.

Key Topics:

- Entering and processing deed descriptions
- Deed correlation with surveyed points
- Creating and labeling lot files
- Using Lot Network for automated subdivision design

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This session was presented by Jennifer DiBona on 06/11/2024

Creating Slope Maps for Residential Developments

A Virtual Webinar Using Carlson Software – Learn to Create Slope Maps

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, demonstrates how to create slope maps for residential development using Carlson Software. The session covers both TIN and grid-based methods, data preparation, and troubleshooting large terrain datasets for planning and subdivision design.

Key Topics:

- Creating slope maps in Carlson Software
- Comparing TIN vs. grid methods
- Managing large terrain datasets and point clouds
- Using Google Earth and DEM data imports
- Applying slope analysis and color zoning

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This session was presented by Travis Maxwell on 09/12/2024.