Importing Publicly Available Lidar for Surface Creation

A Virtual Webinar Using Carlson Software – Learn to Import Publicly Available LiDAR for Surface Creation

This webinar, led by Travis Maxwell and hosted by That CAD Girl, demonstrates how to import and process publicly available LiDAR data to create accurate surface models in Carlson Software. Attendees learned step-by-step methods for downloading, filtering and converting LiDAR datasets using LAS tools and Carlson's surface modeling features.

Key Topics:

- Downloading LiDAR data from the USGS National Map and state repositories
- Using LAS Tools to preprocess and filter LiDAR point clouds
- Creating surfaces and contours in Carlson Software
- Managing precision and file size for optimal performance
- Legal and practical considerations for using public LiDAR data

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

This session was presented by Travis Maxwell on 04/12/2023.

Introduction to Carlson Software – Settings, Setup, Configuration & Points

A Virtual Webinar Using Carlson Software – Learn to Configure Settings and Points

This introductory Carlson Software webinar guides new users through configuring settings, templates and point management in Carlson Survey and Civil modules. It covers installation defaults, project folder organization, drawing templates and practical workflows for creating and editing points.

Key Topics:

- Carlson Configure and default settings
- Project and data folder setup
- Drawing templates and DWT management
- Point creation, linking and editing
- Help resources and version/build management

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This session was presented by Jennifer DiBona on 01/06/2021.

Creating & Using Points for Construction Staking

A Virtual Webinar Using Carlson Software – Learn to Create Construction Points

This webinar, hosted by That CAD Girl and presented by Walt Liles of Terrain Technology, provides a detailed walkthrough of creating and managing points in Carlson Software for construction and surveying workflows. Attendees learned how to generate, edit, export and apply point data for field staking, modeling and data collection.

Key Topics:

- Setting up a new CRD coordinate file
- Draw-Locate Points settings, point numbering series and layers
- Listing and editing points in the CRD file
- Creating points at intervals along entities in Carlson Survey
- Exporting point ranges to text files for data collectors
- Importing Civil 3D points and creating back of curb offset points

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This session was presented by Walt Liles on 10/20/2021.

Making Models from a Mess

A Virtual Webinar Using Carlson Software – Learn to Make Models from Messy Drawings

This webinar demonstrates Carlson Software's toolkit for transforming messy 2D CAD data into clean, 3D-ready models for surface creation, staking and machine control. It walks users through practical cleanup workflows, layer management, elevation-setting commands and essential drawing preparation steps.

Key Topics:

- Cleaning and preparing CAD drawings for 3D modeling
- Using Carlson commands to elevate 2D polylines to 3D
- Managing layers, spot elevations and contours efficiently
- Combining and repairing data from multiple files for site modeling

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This session was presented by Jennifer DiBona on 04/18/2019.

Overview of Carlson GIS

A Virtual Webinar Using Carlson GIS – Learn to Manage, Query and Label GIS Databases

This webinar provides a hands-0n overview of Carlson GIS tools for importing, editing and managing spatial datasets in CAD. It demonstrates how to work with ESRI shapefiles, define GIS features, link drawing entities to databases, create queries and reports and add georeferenced imagery.

Key Topics:

- Importing and linking ESRI shapefiles
- Creating and editing Carlson GIS databases (MDB/Access)
- Data queries, labeling and GIS Inspector tools
- Integration with Google Earth and web map services
- Building custom GIS datasets from CAD or Excel data

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This session was presented by Jennifer DiBona on 04/18/2018.

Features of Carlson Survey & Civil – Setting Points and Stakeout

A Virtual Webinar Using Carlson Software – Learn to Set Points from Entities, Offsets and Slopes

This Carlson Software webinar shows several ways to set points in Carlson Survey and Civil for layout and stakeout. The session covers applying a surveyor’s Field to Finish (FLD) file in Civil, creating points from lines, arcs and GIS shapefile data with Create Points from Entities, setting building offset points, interpolating points and elevations, labeling surface-linked spot elevations and using Points by Slope to set curb break points for a proposed surface.

Key Topics:

- Using a shared Field to Finish (FLD) file in Carlson Civil through Point Defaults for point symbols and layers
- Create Points from Entities for lot corners and radius points, GIS hydrants and manholes and per-entity descriptions
- Building Offset Extensions and Draw Building Envelope Polyline for offset staking points
- Interpolate Points: divide and interval methods between points or along entities, plus elevations between points
- Surface Inspector and surface-linked Draw Spot Elevations that update with Move Spot Elevations and a rewritten TIN

- Points by Slope for curb break points with reference and target points, elevations and grade

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This session was presented by Jennifer DiBona on 02/21/2017.

Annotation in Carlson Software – the Basics

A Virtual Webinar Using Carlson Software – Learn Carlson Annotation Basics for Consistent Plotted Labels

This webinar introduces the fundamentals of annotation within Carlson Software, focusing on setting up text styles, managing annotation sizes and understanding how Carlson handles plotting scales. It includes step-by-step demonstrations for text, line, area labels, points and annotation defaults for land development and survey drawings.

Key Topics:

- Setting up text styles in Carlson CAD environments
- Understanding text height, scaling and annotation defaults
- Labeling lines, areas and points (bearing, distance, lot areas)
- Using Auto Annotate and combining labels

- Managing text rotation, line types and layer templates

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This session was presented by Jennifer DiBona on 05/04/2016.

The Very Basics of Carlson Field to Finish

A Virtual Webinar Using Carlson Software – Learn Carlson Field-to-Finish Basics for Point Coding

This Carlson Software webinar introduces the very basics of Carlson Field-to-Finish for users who want to understand how field codes, FLD files, CRD points, symbols and descriptions work together. The session demonstrates creating a new code table from scratch, defining point-only codes, testing Draw Locate Points, redrawing with Field-to-Finish, controlling layers and adding descriptive size information to point labels.

Key Topics:

- Carlson Field-to-Finish basics and FLD code tables
- Point-only field codes, layers, symbols and descriptions
- Draw Locate Points versus Draw Field-to-Finish
- Separate attribute layers for symbols and labels
- Special codes for appended, prefixed and reusable size

descriptions

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This session was presented by Jennifer DiBona on 08/24/2016.

Surfaces and Breaklines – the Basics

A Virtual Webinar Using Carlson Software – Learn Surfaces and Breaklines Basics

This webinar, hosted by That CAD Girl, provides a comprehensive introduction to creating and editing surfaces and breaklines in Carlson Survey and Carlson Civil 2017. It covers surface fundamentals, step-by-step workflows for triangulation, contouring, breakline creation, field-to-finish processes, merging datasets and proper data delivery for surveyors and engineers.

Key Topics:

- Carlson Triangulate and Contour setup
- Shrinkwrap entities, non-surface points and breaklines
- Surface editing and visualization tools (3D Viewer, Flyover, Inspector)
- Merging survey and GIS (TIN/NED) data

- Building and exporting surfaces (TIN, LandXML)
- Risks of building surfaces from contours only

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This session was presented by Jennifer DiBona on 06/15/2016.

Working with Carlson Hydrology – Drafting Pipes & Structures

A Virtual Webinar Using Carlson Hydrology – Learn to Draft Pipes and Structures

This webinar provides a detailed walkthrough of using Carlson Hydrology to draft pipes and structures, create sewer networks and integrate profiles and surfaces in drainage design. It demonstrates network creation, label management, profile drawing, 3D visualization and practical troubleshooting during hydrology drafting.

Key Topics:

- Creating and editing profiles (generic, road and sewer types)
- Building storm sewer networks (structures, pipes and surfaces)
- Using Carlson Hydrology’s sewer network and profile tools

- Labeling, data tables and 3D visualization of drainage systems
- Troubleshooting and best practices for drafting and design

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This session was presented by Jennifer DiBona on 04/21/2016.