Surfaces and Breaklines – the Basics

A Virtual Webinar Using Carlson Software – Learn to Build Surfaces with Breaklines

This webinar provides a detailed walkthrough of creating accurate terrain surfaces in Carlson Software, focusing on the importance of breaklines, triangulation and contour generation. It demonstrates common pitfalls when building surfaces from contours and offers best practices for using field data, 3D polylines and LandXML files for reliable surface modeling.

Key Topics:

- Creating and editing surfaces in Carlson Software
- Using triangulate and contour commands
- Understanding breaklines and their role in accurate surfac e modeling
- Problems with building surfaces from contours
- Importing and merging surface data (NED, DEM, TIN files)
- Using Surface Inspector and Field-to-Finish tools

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

This session was presented by Jennifer DiBona on 08/15/2018.

Grading Tips & Tricks

A Virtual Webinar Using Carlson Software – Improve Grading and Quantity Workflows

This webinar by That CAD Girl demonstrates practical grading workflows in Carlson Software, covering surface creation, merging and pad design techniques. It provides step-by-step examples for building, editing and inspecting TIN surfaces and grading pads using Carlson Survey, Civil and Construction modules.

Key Topics:

- Creating and merging TIN surfaces
- Using public elevation data (NED/USGS)
- Pad grading and slope projection
- Design Pad Template vs. manual grading
- 3D Polyline and elevation editing tools

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

This session was presented by Jennifer DiBona on 12/19/2018.

Overview of LandXML to Share and Transfer Data

A Virtual Webinar Using LandXML – Learn to Share and Transfer Civil Data

This webinar provides a detailed overview of LandXML-an open, non-proprietary data format used to exchange survey, civil and land-development information between software such as Carlson Civil and Autodesk Civil 3D. Participants learn how to export, import and archive project data using LandXML to ensure long-term accessibility and cross-platform compatibility.

Key Topics:

- What LandXML is and why it matters
- LandXML as an open non-proprietary data format
- Exporting LandXML from Carlson Civil and Civil 3D
- Importing LandXML into Carlson Civil and Civil 3D
- Using LandXML to archive project data
- Collaboration and machine-control workflows with LandXML

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This session was presented by Jennifer DiBona on 11/08/2018.

Overview of Carlson GIS

A Virtual Webinar Using Carlson GIS – Learn to Import, Query and Label Shapefile Data

This webinar provides a practical introduction to Carlson GIS, demonstrating how to import, manage and visualize geospatial data such as shapefiles, images and parcel information. It covers fundamental GIS setup, data linking, querying, labeling and exporting to Google Earth using Carlson GIS tools.

Key Topics:

- Importing and managing ESRI shapefiles
- Setting up GIS feature and database files
- Using queries, labeling and inspector tools
- Integrating imagery and exporting to Google Earth
- Creating and maintaining parcel-based GIS databases

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This session was presented by Jennifer DiBona on 09/25/2018.

Mark’s Favorite Things in

Carlson Desktop Software

A Virtual Webinar Using Carlson Software – Learn Mark’s Favorite Desktop Tools

This webinar features Mark Long from Carlson Software demonstrating his favorite tools and workflows in Carlson Civil and Hydrology. He walks through road design, template point centerlines, surface modeling and hydrology setup, offering practical examples and design tips for everyday engineering tasks.

Key Topics:

- Carlson Road Network design
- Template Point Centerlines
- Surface modeling and grading workflows
- Hydrology setup and watershed layers
- Storm drainage design
- Practical design tips for everyday engineering tasks

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This session was presented by Mark Long on 10/11/2018.

Making Models from a Mess

A Virtual Webinar Using Carlson Software – Learn to Elevate 2D Drawings into 3D Models

This webinar, Making Models from a Mess, teaches Carlson Software users how to clean up poorly drafted CAD drawings and convert 2D entities into accurate 3D models for staking and surface modeling. It covers essential tools, workflows and best practices for managing layers, fixing geometry and elevating polylines to create usable 3D data.

Key Topics:

- Cleaning and organizing messy CAD drawings
- Elevating 2D polylines and contours to 3D
- Managing layers and converting Civil 3D/Land Desktop data
- Using Carlson tools for model building and stakeout preparation
- Handling spot elevations, contours and building pads

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This session was presented by Jennifer DiBona on 10/25/2018.

Jeremy’s Favorite Things in Carlson Desktop Software

A Virtual Webinar Using Carlson Software – Learn Jeremy’s Favorite Desktop Tools

This webinar features licensed surveyor Jeremy Taylor sharing his favorite tools and workflows in Carlson Desktop Software. He demonstrates practical tips for surveyors and CAD professionals to streamline drafting, data management and field-to-finish processes.

Key Topics:

- Carlson Software utilities and cleanup tools
- Best Fit Centerline and Lot Closure workflows
- Legal Description Writer and sequential numbering
- Integration with Google Earth and Carlson Cloud
- Importing PDFs and creating alignments/profiles

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This session was presented by Jeremy Taylor on 11/09/2018.

Features of Carlson Hydrology – Drafting Pipes & Structures

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

This webinar introduces the drafting and setup features of Carlson Hydrology, focusing on creating and labeling sewer networks, profiles and pipe structures. It demonstrates how to configure network settings, build and visualize storm sewer systems and export them into Carlson Civil profiles for design and documentation.

Key Topics:

- Sewer network setup and drafting workflows
- Creating and labeling profiles (existing, proposed and sewer)
- Using Carlson Hydrology's SEW and PRO file structures
- Drawing plan views, profiles and data tables
- Integration with Carlson Civil and 3D Viewer

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

This session was presented by Jennifer DiBona on 06/20/2018.

If You’re Not Using LandXML – You Should Be (yes, all of you!)

A Virtual Webinar Using Carlson Software – Learn to Exchange Project Data with LandXML

This webinar, hosted by That CAD Girl and presented by Nathan Crews of Carlson Software, introduces LandXML as a universal data format for sharing civil engineering and survey data. It covers LandXML structure and supported data types, interoperability between CAD and survey platforms and its growing role in photogrammetry and machine control.

Key Topics:

- Overview and history of LandXML
- Data exchange between Carlson, Autodesk and Bentley products
- Using LandXML with photogrammetry and drone data
- LandXML 2.0 enhancements (materials, 3D objects)
- Future ISO standardization for machine control

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

This session was presented by Nathan Crews on 09/11/2018.

Template Files and Layer Management Tips & Tricks

A Virtual Webinar Using Carlson Software – Learn to Manage Drawing Layers

This webinar explains how to create, customize and manage drawing template files (DWT) and layers in Carlson Software and AutoCAD/IntelliCAD. It covers best practices for setting up company standards, using the Layer Library and improving drawing efficiency through template customization.

Key Topics:

- Creating and customizing DWT template files
- Setting up company drafting standards
- Understanding Carlson and NCS layer standards
- Using Layer Library for layer management and standardization
- Improving drawing efficiency through template customization

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

This session was presented by Jennifer DiBona on 07/27/2018.