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

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

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.

All About Roadway Templates

A Virtual Webinar Using Carlson Software – Learn to Build Roadway Templates

This webinar, hosted by That CAD Girl and presented by Mark Long of Carlson Software, provides an in-depth tutorial on creating and managing roadway templates in Carlson Civil. The session covers advanced template design, super elevation, transitions, subgrades and practical applications for roadway and subdivision design.

Key Topics:

- Carlson Road Design and Template Creation
- Super Elevation and Template Transitions
- Subgrade and Cut/Fill Slope Configuration
- Template Point Centerline and Profile Tools
- Practical Design Applications and Tips

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

This session was presented by Mark Long on 05/05/2020.

Centerlines, Profiles & Overview of RoadNet

A Virtual Webinar Using Carlson Software – Learn to Create Centerlines and Profiles with RoadNet

This webinar provides a comprehensive walkthrough of Carlson Software's tools for creating and managing centerlines, profiles and roadway designs using RoadNet. It covers manual methods for building alignments and profiles, linking data files and automating roadway networks for efficient civil design workflows.

Key Topics:

- Creating and editing Carlson centerline (.CL) and profile (.PRO) files
- Linking CAD geometry to external data files
- Drawing and labeling profiles in Carlson Survey and Civil
- Designing roads and intersections using Carlson RoadNet
- Managing templates, cul-de-sacs and volume reports

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This session was presented by Jennifer DiBona on 12/05/2018.

Advanced Road Network Design

A Virtual Webinar Using Carlson Software – Learn to Design Advanced Road Networks

This webinar, led by Mark Long from Carlson Software and hosted by That CAD Girl, provides an in-depth walkthrough of advanced roadway design using Carlson's RoadNet tools. It covers setup, super elevation, template transitions and practical design workflows for real-world road projects.

Key Topics:

- RoadNet setup and configuration
- Super elevation design and AASHTO standards
- Template transitions and slope adjustments
- Cross-section generation and profile management
- Troubleshooting and workflow best practices

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

This session was presented by Mark Long on 12/18/2018.

2016 Virtual Workshop

Session #1-6: Survey & GIS

A Virtual Workshop Using Carlson Survey – Learn Building Pad Elevations

This session of the Surveying GIS Virtual Workshop focuses on transforming 2D CAD drawings into 3D models for use in surveying, construction stakeout and model building. It provides step-by-step demonstrations of Carlson Software tools for elevating, labeling and cleaning up engineering drawings to prepare accurate 3D surfaces.

Key Topics:

- Converting 2D entities to 3D using Carlson Civil tools
- Elevating building pads, curbs and contours
- Cleaning and preparing engineering drawings for modeling
- Managing layers, blocks and Civil 3D/Land Desktop data
- Creating working drawings and exporting surfaces

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This session was presented by Jennifer DiBona on 05/17/2016.

2016 Virtual Workshop Session #1-5: Survey & GIS

A Virtual Workshop Using Carlson Survey – Learn Field-to-Finish Configuration

This session of the Survey and GIS Virtual Workshop provided a detailed walkthrough of Carlson Software's Field to Finish functionality, led by Scott Griffin. The presentation demonstrated how to automate drawing creation from field data, manage codes and integrate 3D elements, pipes and GIS attributes within Carlson Survey.

Key Topics:

- Carlson Field to Finish setup and workflows
- Code tables, special codes and feature types (Tree, Pipe, Topo)
- Creating 3D trees, pipes and curb templates
- Generating tree legends, SEW files and 3D PDFs
- Importing and converting PDF files using CADnet

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This session was presented by Scott Griffin on 05/17/2016.

2016 Virtual Workshop Session #1-4: Survey & GIS

A Virtual Workshop Using Carlson SurvCE and SurvPC – Learn Field Software Setup

This virtual class, hosted by That CAD Girl and presented by Jeremy Taylor, provides a comprehensive overview of Carlson's field software—SurvCE and SurvPC—and demonstrates practical workflows for survey data collection, cloud file sharing and GPS/localization setup. The session also covers integration with Carlson Survey desktop software and best practices for efficient field-to-office coordination.

Key Topics:

- Differences between SurvCE and SurvPC
- Using Carlson Cloud for file transfer and collaboration
- Job setup, configuration and data management
- Integration with total stations and GPS rovers
- Working with CAD files and alignments in the field
- Ground vs. grid coordinate handling and localization

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This session was presented by Jeremy Taylor on 05/17/2016.