

# Centerlines, Profiles & Overview of RoadNet

## A Virtual Webinar Using Carlson Software – 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.

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## That CAD Girl

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# **Advanced Road Network Design – with Mark Long of Carlson Software**

## **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

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

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# **Advanced Field to Finish – Perfecting Coding & Creating Linework**

## **A Virtual Webinar Using Carlson Software – Perfect Coding and Create Linework**

This advanced Carlson Software webinar demonstrates how to perfect Field-to-Finish workflows by standardizing field codes, creating and populating FLD files, and generating automated linework. It builds on the basics of point coding to show efficient methods for coding, symbol management, and drawing 2D/3D polylines directly from survey data.

### **Key Topics:**

- Populating and cleaning FLD files from point data
- Standardizing field descriptions and coding syntax
- Using special codes for linework, curves, and offsets
- Managing layers, symbols, and line types
- Automating 2D and 3D polyline creation

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This session was presented by Jennifer DiBona on 09/26/2018.

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# **Features of Carlson Survey & Civil – Setting Points and Stakeout**

## **A Virtual Webinar Using Carlson Software – Learn to Set Points for Stakeout**

This webinar demonstrates how to use Carlson Survey and Carlson Civil to create, manage, and stake out points efficiently. It covers field-to-finish workflows, point defaults, creating points from entities, interpolating points, and generating offset or spot-elevation data for design and construction projects.

**Key Topics:**

- Field-to-Finish and FLD file integration
- Point Defaults and Layer Management
- Creating Points from Entities (COGO tools)
- Interpolation and Offset Commands
- Dynamic Spot Elevations linked to surfaces

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This session was presented by Jennifer DiBona on 11/20/2018.

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# **Overview of SurvCE & SurvPC and the Carlson Cloud**

## **A Virtual Webinar Using Carlson SurvCE and SurvPC – Learn to Manage Field Data**

This webinar provides a detailed overview of Carlson's field software—SurvCE and SurvPC—and demonstrates how they integrate with the Carlson Cloud for data sharing. Presenter Jeremy Taylor walks through configuration, setup, and practical field workflows for surveyors using both total stations and GPS equipment.

### **Key Topics:**

- Overview and comparison of SurvCE and SurvPC
- Job setup, configuration, and data management
- Equipment setup for total stations and GPS
- Feature coding, field-to-finish, and stakeout workflows
- Using Carlson Cloud for file transfer and collaboration

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This session was presented by Jeremy Taylor on 06/12/2018.

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# **Advanced Carlson Hydrology & P3D**

## **A Virtual Webinar Using Carlson Software – Advance Hydrology and P3D Workflows**

This webinar, hosted by That CAD Girl and presented by Mark Long of Carlson Software, explores advanced techniques in Carlson Hydrology and Precision 3D (P3D). It demonstrates how to integrate watershed modeling, storm drainage design, and 3D visualization for efficient civil engineering workflows.

### **Key Topics:**

- Carlson Hydrology fundamentals and watershed layer setup
- Precision 3D (P3D) integration for stormwater design

- Surface modeling, runoff coefficients, and drainage networks
- Use of LIDAR and Google Earth data for terrain modeling
- Workflow between CAD-based hydrology and 3D visualization

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This session was presented by Mark Long on 07/24/2018.