Basics of Road Design in Carlson Civil

A Virtual Webinar Using Carlson Software – Learn to Design Roads

This webinar, hosted by That CAD Girl and presented by Mark Long from Carlson Software, provides a comprehensive introduction to road design using Carlson Civil's Road Network tools. The session covers setup, configuration, template creation and practical design workflows for roads, intersections and cul-de-sacs.

Key Topics:

- Introduction to Carlson Civil's Road Network (RoadNet)
- Setting up surfaces, templates and profiles
- Creating intersections and cul-de-sacs
- Managing cross sections and earthwork quantities
- Tips for efficient road design workflows

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This session was presented by Mark Long on 03/11/2021.

Advanced Road Design in Carlson Civil

A Virtual Webinar Using Carlson Software – Learn to Design Advanced Roads

This webinar, hosted by That CAD Girl and presented by Mark Long from Carlson Software, provides an in-depth demonstration of advanced road design techniques using Carlson Civil. The session covers super elevation setup, template transitions and template point center lines for complex roadway and drainage design scenarios.

Key Topics:

- Super elevation design and configuration in Carlson Civil
- Template transitions for slope and grading adjustments
- Template point center lines for knuckles, parking and sidewalks
- Stream impact minimization and slope control
- Integration with hydrology and future webinars

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This session was presented by Mark Long on 04/08/2021.

2020 Virtual Workshops Session #2-4: P3D Topo, Hydro & Dynamic CAD Software VIP Round Table

A Virtual Workshop Using Carlson Software – Explore Precision 3D Hydrology and Dynamic CAD

This virtual workshop session, led by Bruce Carlson, provides an in-depth demonstration of Carlson Precision 3D Hydrology (P3D Hydro) and its integration with Carlson CAD modules. The training covers intelligent TIN modeling, storm sewer and culvert design, hydrology analysis and dynamic CAD synchronization for civil engineering workflows.

Key Topics:

- Intelligent TIN surfaces and runoff coefficient mapping
- Integration between Carlson Hydrology and Precision 3D Hydro
- Storm sewer and culvert design automation
- Dynamic CAD linkage and real-time updates
- Channel and liner analysis, parking lot design automation

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This session was presented by Bruce Carlson on 12/16/2020.

2020 Virtual Workshops Session #2-2: Carlson Desktop Software VIP Round Table

A Virtual Workshop Using Carlson Software – Ask the Experts About Carlson Desktop Software

This Carlson Software virtual workshop featured a live “Ask the Experts” roundtable focused on desktop software, including Carlson Survey, Civil, Construction and IntelliCAD. Developers and support leaders discussed common technical issues, new features and user wishlist items for upcoming releases.

Key Topics:

- IntelliCAD 10 graphics settings and troubleshooting
- Carlson Cloud communication and wishlist enhancements
- Road design and divided highway modeling
- Common tech support issues and fixes
- Dynamic labeling, MText improvements and GIS integration

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This session was hosted by Jennifer DiBona with panelists Dave

Carlson, Leonid Entov, Lon Watson and Scott Griffin on 12/16/2020.

2020 Virtual Workshop Session #1-7: Survey Project from Start to Finish with Field to Finish & Surfaces

A Virtual Workshop Using Carlson Software – Explore a Survey Project from Boundary to Surface

This Carlson Software virtual workshop, led by Jennifer DiBona, walks participants through a complete survey project workflow using Carlson Survey—from importing field data and creating coordinate files to deed entry, field-to-finish processing, surface modeling and final sheet setup. The session emphasizes practical command usage, data organization and troubleshooting techniques for real-world survey drafting.

Key Topics:

- Importing and managing point data (CRD/CRDB files)
- Deed entry, correlation and processing
- Field-to-Finish setup and drawing automation
- Surface modeling and triangulation

- Annotation, labeling and sheet preparation
- Integration with Carlson GIS and Google Earth imagery

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This session was presented by Jennifer DiBona on 12/15/2020.

2020 Virtual Workshop Session #1-6: Case Study Q&A – Project Overview Using Carlson in Civil & Hydrology Design

A Virtual Workshop Using Carlson Software – Explore RoadNet Design Revisions and Earthwork

This virtual workshop session features Carlson Software's Mark Long demonstrating real-world civil engineering workflows using Carlson Civil Suite. The presentation covers subdivision design, grading, stormwater management and road network modeling with practical tips and live demonstrations.

Key Topics:

- Carlson Civil Suite workflow for civil engineering project s

- Subdivision and roadway design techniques
- Dirt quantity calculations and balancing
- Super elevation and North Carolina DOT standards
- RoadNet, templates and intersection management

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This session was presented by Mark Long on 12/15/2020.

2020 Virtual Workshop Session #1-5: Case Study – Q&A Project Overview of Using Carlson to Create Machine Control Models

A Virtual Workshop Using Carlson Software – Explore 3d breaklines, surface construction and grading checks

This virtual workshop, led by Walt Liles of Terrain Technology, provides an in-depth walkthrough of building GPS-ready 3D surface models using Carlson Civil and IntelliCAD. The session covers drawing preparation, data cleanup, layer management and

model triangulation for machine control applications.

Key Topics:

- Carlson Civil and IntelliCAD setup for model building
- Data preparation and drawing cleanup
- Layer management and naming conventions
- Creating and editing 3D polylines and surfaces
- Exporting models for machine control (Topcon, Trimble)

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This session was presented by Walt Liles on 12/15/2020.

2020 Virtual Workshop Session #1-3 Annotation Tips & Tricks for Land Surveyors

A Virtual Workshop Using Carlson Software – Explore Survey Line, Curve and Lot Annotation

This Carlson Software virtual workshop, led by Jeremy Taylor, demonstrates efficient methods for annotating subdivision plats in Carlson CAD. It covers manual and automated annotation, lot closure verification, line and curve tables and practical workflow tips for surveyors.

Key Topics:

- Carlson Software annotation tools and defaults
- Auto Annotate and line/curve table automation
- Creating and managing lot files and closure reports
- Area labeling and area tables for small lots
- Troubleshooting annotation issues and CAD cleanup

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This session was presented by Jeremy Taylor on 12/15/2020.

2020 Virtual Workshop Session #1-2 Overview of Carlson Software

A Virtual Workshop Using Carlson Software – Explore Carlson Survey and Civil Capabilities

This Carlson Software virtual training workshop, led by Scott Griffin and hosted by That CAD Girl, provides an in-depth walkthrough of Carlson Survey and Civil tools, focusing on Field-to-Finish workflows, coordinate file utilities, lot and road design and 3D modeling. The session demonstrates efficient CAD automation, data exchange with data collectors and integration with Google Earth for visualization.

Key Topics:

- Field-to-Finish setup with tree and pipe feature coding
- Legal description writer and dynamic labeling
- Construction stakeout and building offset tools
- LotNet subdivision design and reporting
- RoadNet design with intersections, cul-de-sacs and hammerh eads
- 2D-to-3D conversion, surface modeling and Google Earth ove rlays

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This session was presented by Scott Griffin on 12/15/2020.

2020 Virtual Workshop Session #1-1: Introduction & Welcome

A Virtual Workshop Using Carlson Software – Explore the Workshop Format and Carlson Training

This session opened the 2020 Carlson Software Virtual Workshop, introducing attendees to the event structure, instructors and logistics for the three-day training. The presentation covered session navigation, Q&A procedures, certificate details and

special promotions for participants.

Key Topics:

- Workshop overview and logistics
- Instructor introductions and session previews
- Virtual booth and Q&A process
- Recording access and certification details
- Discounts, giveaways and maintenance renewals

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This session was presented by Jennifer DiBona on 12/15/2020.