Tips & Tricks in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Improve Drafting Workflows

This Carlson Software Tips & Tricks webinar, led by Travis Maxwell and hosted by That CAD Girl, explored advanced drafting and design techniques in Carlson 2024. Topics included dynamic arrays, labeling elevations, dynamic text linking, profile customization and title block management for efficient civil design workflows.

Key Topics:

- Dynamic arrays and grid creation
- Labeling elevations and using UCS for profiles
- Dynamic text and Excel-linked tables
- Profile drawing with cut/fill hatching and label boxes
- Title block automation and block data reporting

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

This session was presented by Travis Maxwell on 07/25/2024.

Tips & Tricks in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Optimize Civil Workflows

This Carlson Software webinar, hosted by That CAD Girl and presented by Travis Maxwell, explored advanced techniques and workflows in Carlson Civil and related tools. Topics included surface rendering, QGIS integration, annotative CAD scaling and the new parking lot design tool.

Key Topics:

- Advanced surface modeling and rendering in Carlson Civil
- Integrating QGIS and DEM data for terrain modeling
- Annotative text and symbol scaling in CAD drawings
- Introduction to the Parking Lot Tool for grading and layou t
- Workflow optimization and visualization techniques

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This session was presented by Travis Maxwell on 06/05/2024.

Tips & Tricks in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Improve Drafting Workflows

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, covered advanced tips and tricks for Carlson Software users. Topics included Field-to-Finish setup, annotative text management, custom toolbars and LotNet subdivision workflows to improve drafting and design efficiency.

Key Topics:

- Field-to-Finish setup using spreadsheets
- Annotative text and scaling best practices
- Custom toolbar and LISP automation
- Text formatting cleanup and overrides
- LotNet for subdivision and lot numbering

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This session was presented by Travis Maxwell on 04/25/2024.

Fast Track to Surface Modeling in Carlson Software: Session #2-3

A Virtual Classroom Using Carlson Software – Complete RoadNet and Lot Grading

This session of the *FastTrack Surface Modeling* series demonstrates advanced Carlson Software road network design, including intersections, cul-de-sacs, turn lanes and lot grading automation. The instructor walks through practical workflows for building, editing and processing road networks while explaining how Carlson dynamically manages profiles, templates and surfaces.

Key Topics:

- Creating and editing roads within Carlson Road Network
- Managing intersections, cul-de-sacs and roundabouts
- Using templates, profiles and grading settings
- Elevating pads and lots for building sites
- Generating surfaces, contours and quantity reports

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This session was presented by Jennifer DiBona on 07/27/2023.

Fast Track to Surface Modeling in Carlson Software: Session #2-2

A Virtual Classroom Using Carlson Software – Set Up RoadNet Templates and Road Surfaces

This Carlson Software training webinar continues the Fast Track Surface Modeling series, focusing on advanced grading, 3D polyline editing and surface modeling workflows. The session demonstrates practical tools for curb, sidewalk and parking lot design, as well as road network setup and volume calculations.

Key Topics:

- 3D polyline elevation editing and grading
- Creating and adjusting curb, sidewalk and parking lot surf aces
- Using Carlson's "Points by Slope" and "2D to 3D Polyline" tools
- Building and merging surface models
- Road Network (RoadNet) setup and template creation

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This session was presented by Jennifer DiBona on 07/27/2023.

Fast Track to Surface Modeling in Carlson Software: Session #2-1

A Virtual Classroom Using Carlson Software – Improve Contour-Based Surface Models

This advanced Carlson Software training session covers surface modeling workflows, LandXML data exchange, pad grading and volume calculations. Participants learn practical grading and modeling techniques for civil and survey projects using Carlson Civil and Survey modules.

Key Topics:

- LandXML export/import and data archiving
- Pad grading and daylight projection
- Volume calculations and balancing
- Surface merging and cut/fill analysis
- Stockpile volume computation

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This session was presented by Jennifer DiBona on 07/27/2023.

Fast Track to Surface Modeling in Carlson Software: Session #1-3

A Virtual Classroom Using Carlson Software – Build Pad Grading Surface Models

This session is the third installment in the *Fast Track to Surface Modeling in Carlson Software* training series. It provides a detailed walkthrough of surface modeling workflows, including labeling, 3D polyline editing, pad grading, daylighting and design pad templates within Carlson Civil and Survey.

Key Topics:

- Labeling and annotating 3D polylines
- Elevating 2D polylines using surfaces and slope calculations
- Pad grading and daylighting techniques
- Using Design Pad Template for automated grading

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This session was presented by Jennifer DiBona on 07/25/2023.

Fast Track to Surface Modeling in Carlson Software: Session #1-2

A Virtual Classroom Using Carlson Software – Build Surfaces from Contours and Polylines

This Carlson Software training session led by That CAD Girl provides a detailed walkthrough of surface modeling techniques, focusing on creating and refining TIN and grid surfaces from contours, points and public data sources. The webinar demonstrates best practices, pitfalls to avoid and advanced Carlson Civil tools for accurate grading and surface preparation.

Key Topics:

- Building surfaces from contours and avoiding flat triangles
- Using Carlson's triangulation and contouring tools
- Importing public elevation data (Google Earth, NED, LiDAR DEM)
- Managing TIN vs GRID files and surface boundaries
- Elevating 2D polylines to 3D for grading and design

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This session was presented by Jennifer DiBona on 07/25/2023.

Fast Track to Surface Modeling in Carlson Software: Session #1-1

A Virtual Classroom Using Carlson Software – Learn Surface Modeling Fundamentals

This session introduces the fundamentals of surface modeling in Carlson Software, covering how to build, inspect and refine existing ground surfaces using points, breaklines and triangulation tools. Participants learn practical workflows for creating accurate TIN models, troubleshooting elevation issues and improving contour quality.

Key Topics:

- Building and validating existing ground surfaces
- Using Drawing Inspector, 3D Viewer and Shrink Wrap tools
- Managing non-surface points and breaklines
- Triangulate & Contour workflows
- Field-to-Finish automation and contour aesthetics

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This session was presented by Jennifer DiBona on 07/25/2023.

Customizing Carlson for Erosion Control Permitting and Design:
Session #2-3

A Virtual Classroom Using Carlson Software – Complete an Erosion Control Design Workflow

This webinar demonstrates advanced techniques for customizing Carlson Software for erosion control, permitting and design workflows. It covers grading swales, creating stockpiles, managing surfaces and automating plan set production using sheet sets and data links.

Key Topics:

- Grading and modeling swales and ponds in Carlson Civil
- Surface management and triangulation techniques
- Automating erosion control plan sets with sheet sets
- Linking CAD tables with Excel for dynamic calculations
- Integrating GIS data and slope analysis

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This session was presented by Travis Maxwell on 09/21/2023.