

2022 Virtual Workshops 1-1

Introduction to CAD

Recorded 11/15/2022

The opening session of the 2022 Virtual Workshops introduced participants to IntelliCAD 2023 and Carlson 2023, focusing on CAD fundamentals, interface navigation, and drafting precision. Jennifer DiBona guided attendees through command usage, settings, object snaps, polylines, text tools, and practical workflow tips for survey and civil design professionals.

Key Topics:

- Workshop logistics and GoToWebinar Q&A setup
- Overview of Carlson 2023 (IntelliCAD 10.1) release and stability improvements
- CAD interface elements: command line, toolbars, menus, ribbons, workspaces
- Default settings, options, and drafting preferences
- Command entry, quick keys, and aliases
- Object snaps (OSNAP) and precision drafting
- Lines vs. polylines, grips, and selection methods
- Text creation (single-line vs multi-line) and editing
- Saving, backups, and workspace management

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

This session was presented by Jennifer DiBona on 11/15/2022.

The Very Basics of Carlson Field to Finish

A Virtual Webinar Using Carlson Software – Learn Carlson Basics for Design Workflows

This webinar introduces the fundamentals of Carlson's Field to Finish workflow, led by Doug Oberg and hosted by That CAD Girl. It walks surveyors through setting up code tables, managing linework, and automating drafting tasks to improve efficiency from field data collection to finished CAD drawings.

Key Topics:

- Introduction to Carlson Field to Finish setup
- Creating and editing code tables
- Managing linework, symbols, and layers
- Using special codes and offsets
- Automating drafting and data processing

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This session was presented by Doug Aaberg on 03/10/2022.

Surfaces and Breaklines – the Basics

A Virtual Webinar Using Carlson Software – Learn to Build Surface Models

This webinar introduces the fundamentals of creating and refining surface models in Carlson Software, focusing on how to use points, breaklines, and surface-editing tools to produce accurate terrain models. It covers best practices for data preparation, triangulation, contour generation, and integrating external elevation data for design and visualization.

Key Topics:

- Preparing point and linework data for surface modeling
- Using Shrink Wrap Entities and Non-Surface point flags
- Building TIN surfaces and contours with Triangulate and Contour
- Creating and editing 3D breaklines
- Field-to-Finish automation for surface creation
- Importing and merging external elevation data (NASA & Google)
- Visualization tools (3D Viewer, Flyover, Image Draping)

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This session was presented by Jennifer DiBona on 02/09/2022.

Overview of Carlson Point Cloud

A Virtual Webinar Using Carlson Point Cloud – Learn to Process Point Cloud Data

This webinar provides an in-depth overview of Carlson Point Cloud, demonstrating how to import, clean, and process point cloud data for surveying and CAD integration. Presenter Doug Oberg walks through workflows using drone imagery, Photo Capture, and Carlson's Point Cloud Basic and Advanced modules.

Key Topics:

- Importing and managing point clouds in Carlson
- Cleaning and processing data (Bare Earth extraction, noise removal)
- Creating surfaces, points, and CAD drawings from point clouds
- Using Photo Capture and GeoTIFF imagery
- Advanced tools for parking lot and color edge extraction

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This session was presented by Doug Aaberg on 04/28/2022.

Introduction to RoadNet in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Create Road Networks

This webinar introduces Carlson RoadNet, focusing on fundamental setup, workflow, and troubleshooting for creating road networks in Carlson Civil. The session covers drawing centerlines, setting templates, managing intersections and cul-de-sacs, and integrating lot grading for subdivision design.

Key Topics:

- Carlson RoadNet basics and setup
- Drawing and orienting centerlines
- Templates, profiles, and intersections
- Cul-de-sac design and troubleshooting
- Lot and pad elevation automation

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This session was presented by Travis Maxwell on 07/20/2022.

Introduction to LotNet in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Create LotNet Subdivision Layouts

This webinar introduces Carlson Software's LotNet module, demonstrating how to create, edit, and manage subdivision layouts efficiently. Travis Maxwell walks through practical examples, showing how to set up boundaries, roads, and lots, and how to troubleshoot common issues.

Key Topics:

- Overview and setup of LotNet in Carlson Software
- Creating and editing subdivision layouts
- Integrating LotNet with RoadNet and SiteNet
- Troubleshooting and customization tips

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This session was presented by Travis Maxwell on 07/08/2022.

Introduction to Carlson Software – Settings Setup Configuration & Points

A Virtual Webinar Using Carlson Software – Learn to Configure Setup and Manage Points

This webinar introduces new and intermediate users to Carlson Software's CAD environment, focusing on setup, configuration, and point management. Presenter Travis Maxwell demonstrates essential CAD commands, toolbar customization, and layer management to help users optimize their Carlson workflows.

Key Topics:

- CAD basics and command shortcuts
- Installation prerequisites and admin setup
- Toolbars, layers, and properties management
- Using snaps, polylines, and blocks
- Tool palettes and workflow customization

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This session was presented by Travis Maxwell on 11/03/2022.

Introduction to Carlson Software – Settings Setup Configuration & Points

A Virtual Webinar Using Carlson Software – Learn to Configure Settings and Manage Points

This introductory webinar covers the fundamentals of Carlson Software, focusing on settings, setup, configuration, and points management. Hosted by That CAD Girl's Jennifer DiBona with instructor Travis Maxwell, the session guides new users through essential CAD commands, workspace customization, and productivity tools within Carlson.

Key Topics:

- Carlson Software introduction and training schedule
- Basic CAD commands and shortcuts (erase, polyline, circle, trim, extend, etc.)
- Managing layers, properties, and toolbars
- Using text, MText, and MLeader for annotation
- Setting up templates, tool palettes, and workspace customi

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This session was presented by Travis Maxwell on 09/01/2022.

Introduction to Carlson Software – Settings Setup Configuration & Points

A Virtual Webinar Using Carlson Software – Learn to Configure Settings and Manage Points

This introductory webinar provides new Carlson Software users with a step-by-step walkthrough of essential setup procedures, including drawing configuration, coordinate systems, project folders, and point management. Presenter Travis Maxwell demonstrates how to configure Carlson Civil or Survey for optimal performance and accuracy in CAD-based workflows.

Key Topics:

- Carlson Software setup and configuration
- Coordinate systems and projection settings
- Managing project folders and coordinate files
- Importing and drawing survey points
- Using symbols, layers, and blocks effectively

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This session was presented by Travis Maxwell on 08/08/2022.

Introduction to Carlson Software – Settings Setup Configuration & Points

A Virtual Webinar Using Carlson Software – Learn to Configure Setup and Manage Points

This webinar introduces new and intermediate users to Carlson Software's setup, configuration, and CAD environment, focusing on IntelliCAD and AutoCAD integration. Presenter Travis Maxwell demonstrates essential CAD commands, configuration settings, and best practices for managing points, layers, fonts, and drawing

standards.

Key Topics:

- CAD command shortcuts and configuration
- IntelliCAD vs. AutoCAD performance and compatibility
- Carlson drawing setup, coordinate systems, and project data management
- Font and text style issues between platforms
- Importing Civil 3D data and converting surfaces

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This session was presented by Travis Maxwell on 07/06/2022.