

The Power of Tool Palettes

A Virtual Webinar Using CAD Software – Learn Tool Palette Automation

This webinar, *The Power of Tool Palettes*, led by Travis Maxwell and hosted by That CAD Girl, explores how CAD professionals can use tool palettes to standardize drafting practices, automate repetitive tasks, and improve team consistency. The session covers setup strategies, macro scripting, and sharing palettes across teams for efficient project workflows.

Key Topics:

- Setting up and managing tool palettes
- Using macros and scripts for automation
- Maintaining CAD standards and consistency across teams
- Sharing and exporting palettes for office-wide use

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

This session was presented by Travis Maxwell on 08/30/2023.

That CAD Girl

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2023 Virtual Workshops Point Clouds, P3D, CPC, etc, Recorded 10/11/23

This internal Carlson Software virtual workshop focused on the Carlson Photo Capture (CPC) and Point Clouds 3D modules, comparing standalone versus cloud processing, hardware requirements, and workflows for drone data. The session also covered product positioning, AI-based feature extraction, and internal coordination on hydrology and engineering modules.

Key Topics:

- Carlson Photo Capture standalone vs. web-based tiers
- Hardware specs and performance considerations
- Point Cloud Advanced features and AI extraction tools
- Drone data processing workflow (images, GCPs, LAS export)
- Internal engineering and personnel updates

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This session was presented by Scott Griffin and Jennifer DiBona

on 10/11/2023.

Working With Sheet Sets

A Virtual Webinar Using IntelliCAD – Learn Sheet Set Automation

This webinar, presented by Travis Maxwell and hosted by That CAD Girl, provides a comprehensive walkthrough of using sheet sets in IntelliCAD and AutoCAD. It covers setup, numbering, field management, and automation techniques to streamline large CAD projects.

Key Topics:

- Creating and managing sheet sets in IntelliCAD
- Automating title block data with fields and LISP scripts
- Organizing large projects and publishing multi-sheet PDFs

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This session was presented by Travis Maxwell on 10/27/2023.

Paper Space, Title Blocks & Templates

A Virtual Webinar Using Carlson and AutoCAD – Learn to Streamline CAD Production

This webinar, hosted by That CAD Girl, provides a comprehensive walkthrough of using paper space, title blocks, and templates in Carlson and AutoCAD. It covers best practices for layout setup, viewport management, scaling, plotting, and sheet set organization to streamline CAD production workflows.

Key Topics:

- Paper space vs. model space fundamentals
- Layout tab setup and page configuration
- Viewports, scaling, and locking techniques
- Managing layers, line types, and rotations
- Using Sheet Set Manager and drawing templates

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This session was presented by Jennifer DiBona on 04/09/2024.

2024 Virtual Workshops – Session #4-4 Recorded 12/11/2024

This advanced Carlson Software virtual workshop, led by Mark Long, demonstrates integrated civil and hydrology design workflows using Carlson Hydrology, Sewer Network, and Precision 3D Hydro. Participants learn how to model surfaces, design storm and sanitary systems, and visualize drainage networks in 3D for more efficient, accurate engineering.

Key Topics:

- Precision 3D Hydro and Dynamic CAD integration
- Storm drainage and sewer network design in Carlson Hydrology
- Surface modeling, watershed analysis, and runoff coefficients
- Pipe sizing, hydraulic grade line (HGL) setup, and profile generation
- Utility network creation (water, conduit, laterals)
- Future Carlson Software enhancements (2026 release preview)

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This session was presented by Mark Long on 12/11/2024.

2024 Virtual Workshops – Session #4-3 Recorded 12/11/2024

In this advanced Carlson Software virtual workshop, Mark Long demonstrates time-saving techniques for civil and hydrology design using Carlson Civil and Hydrology modules. The session focuses on efficient subdivision layout, road network design, templates, super elevation, and grading transitions to enhance productivity and precision in engineering workflows.

Key Topics:

- Lot Network and Subdivision Layout Tools
- Road Network (RoadNet) Design and Settings
- Template Creation and Management
- Super Elevation and Transition Design
- Grading, Slopes, and Stream Impact Minimization

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This session was presented by Mark Long on 12/11/2024.

2024 Virtual Workshops –

Session #4-2

Recorded 12/11/2024

This virtual workshop continues the 2024 series on Carlson Software, focusing on surface modeling, pad grading, and 3D polyline workflows. Participants learn practical grading techniques, daylight line creation, and surface triangulation for real-world site design projects.

Key Topics:

- Pad grading and daylight line creation
- 3D polyline utilities and elevation editing
- Building pad and curb grading workflows
- Surface triangulation, contour generation, and volume analysis
- Cut/fill color mapping and contour cleanup

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This session was presented by Jennifer DiBona on 12/11/2024.

2024 Virtual Workshops – Session #4-1

Recorded 12/11/2024

This session from *That CAD Girl's 2024 Virtual Workshop Series* introduces participants to surface modeling and grading workflows in Carlson Software. The training covers building existing ground surfaces, using breaklines, creating 3D polylines, merging surfaces, and integrating GIS imagery for visualization.

Key Topics:

- Carlson Software surface modeling fundamentals
- Breaklines, boundaries, and triangulation (TIN) creation
- Field-to-Finish automation and 3D polyline generation
- Contour labeling, line-type generation, and cleanup
- Importing Google/NASA/USGS surfaces and merging TIN files
- Using GIS imagery and 3D flyovers for visualization

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This session was presented by Jennifer DiBona on 12/11/2024.

2024 Virtual Workshops – Session #3-4

Recorded 12/10/2024

This session from *That CAD Girl's 2024 Virtual Workshop series* features Donnie's in-depth training on Carlson's Least Squares Adjustment tools for survey data analysis. The workshop covers interpreting reports, identifying blunders, understanding

statistical tests, and applying best practices for boundary and DOT survey adjustments.

Key Topics:

- Carlson Least Squares Adjustment fundamentals
- Error analysis and residual interpretation
- Chi-square testing and blunder detection
- ALTA/NSPS accuracy standards
- Practical examples: boundary and DOT survey data

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This session was presented by Donnie Stallings on 12/10/2024.

2024 Virtual Workshops – Session #3-3, Recorded 12-10-2024

This virtual Carlson Survey workshop, led by Donnie Stallings and hosted by That CAD Girl, introduced surveyors to the principles of least-squares adjustment and the use of Carlson Survey's SNET module. The session covered theory, workflow setup, and practical examples combining total-station and GPS data.

Key Topics:

- Introduction to least-squares adjustment theory
- History and development of Carlson Survey's SNET (Survey Net)

- Practical setup and configuration of SNET projects
- Combining total-station and GPS vectors
- Error analysis, blunder detection, and ALTA/NC DOT workflows

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This session was presented by Donnie Stallings on 12/10/2024.