12 Sessions: 2016 Virtual Workshop

A Virtual Workshop collection covering Carlson survey and GIS workflows, civil site design and hydrology analysis.

These 12 Survey and GIS and Civil and Hydrology Virtual Workshop sessions show practical Carlson workflows from field data collection and adjustments through site modeling and drainage design. Jennifer DiBona, Jeremy Taylor, Nathan Crews, Scott Griffin, Dave Carlson and Mark Long cover deed entry, traverse adjustments, SurvCE and SurvPC, Field-to-Finish and turning 2D drawings into 3D models. The civil sessions add surfaces and grading, a look at Carlson 2017, LotNet and RoadNet layout and storm sewer and pond design, with a Precision 3D Topo demonstration.

Key Topics:

- Carlson deed entry, control points, georeferencing, imagery and GIS parcel data
- Carlson traverse adjustments, SurvNet least squares workflows and stakeout cut sheets
- Carlson SurvCE, SurvPC and Cloud workflows for field data exchange and stakeout
- Carlson Field-to-Finish coding, automated linework, tree features and pipe data
- Carlson CAD editing, annotation and conversion of 2D drawings into 3D models

- Carlson TIN surfaces, breaklines, contours, pad grading and cut/fill balancing
- Carlson LotNet subdivision layouts and RoadNet road and intersection design
- Carlson watershed analysis, runoff calculations, storm sewers and pond routing
- Carlson Precision 3D Topo terrain editing and the historical Carlson 2017 feature preview

Sessions In This Series:

- 1-1: Survey & GIS-Tips & Tricks, presented by Jennifer DiBona
- 1-2: Survey & GIS-Traverse Adjustments, presented by Jeremy Taylor
- 1-3: Survey & GIS-Intro to Precision 3D, presented by Nathan Crews
- 1-4: Survey & GIS-SurvCE, SurvPC & the Carlson Cloud, presented by Jeremy Taylor
- 1-5: Survey & GIS-Overview of Field to Finish, presented by Scott Griffin
- 1-6: Survey & GIS-Elevating 2D to 3D for Models or Staking, presented by Jennifer DiBona
- 2-1: Civil & Hydrology-Tips & Tricks, presented by Jennifer DiBona
- 2-2: Civil & Hydrology-Overview of Surfaces and Grading, presented by Jennifer DiBona
- 2-3: Civil & Hydrology-Overview of Carlson 2017, presented by Dave Carlson
- 2-4: Civil & Hydrology-Subdivision Layout & Design, presented by Scott Griffin
- 2-5: Civil & Hydrology-Road, Site, Pond, Design & Hydro Part 1, presented by Mark Long
- 2-6: Civil & Hydrology-Road, Site, Pond, Design & Hydro Part 2, presented by Mark Long

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

*These sessions were presented by Jennifer DiBona and Carlson staff*Jennifer DiBona covers deed entry, control points, georeferencing and GIS parcel data in Carlson Survey.Jeremy Taylor walks through traversal adjustments, SurvNet least squares and stakeout sheets.Nathan Crews demonstrates Carlson Precision 3D Topo for surface editing and 3D survey modeling.Jeremy Taylor covers SurvCE, SurvPC and Carlson Cloud workflows for field data and stakeout.Scott Griffin introduces Field-to-Finish coding, automated linework, tree features and data.Jennifer DiBona shows how to turn 2D drawings into 3D models





for surfaces or staking.Jennifer DiBona shares Civil and Hydrology tips, including polyline tools, annotation and layout utilities.





Jennifer DiBona overviews Carlson surfaces and grading, including TINs, breaklines and contours.Dave Carlson previews new features and enhancements in Carlson 2017.





Scott Griffin covers LotNet subdivision layout and RoadNet road and

intersection design.Mark Long begins road, site, pond and hydrology design in Carlson Civil and Hydrology.



Mark Long continues road, site, pond and hydrology design with storm sewers and ponds.





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18 Sessions: 2020 Virtual Workshop

A Virtual Workshop series featuring Carlson Software case studies, expert Q&A and practical training in survey drafting, civil design and 3D modeling

The 2020 Virtual Workshops combine Carlson demonstrations and project case studies with developer and support round tables. Sessions follow survey drafting, annotation, Field-to-Finish, machine-control models, civil and hydrology design, drawing cleanup, CAD standards, point clouds and sanitary and utility networks in Carlson Hydrology. Round tables cover desktop software, Precision 3D, Dynamic CAD and SurvCE and SurvPC field software, while Dwayne Tindall of CAD Masters explains Autodesk licensing changes for Carlson users. Jennifer DiBona hosts with Scott Griffin, Jeremy Taylor, Walt Liles, Mark Long, Bruce Carlson, Doug Aaberg, Steve Cummings, David Kraus and other Carlson staff.

Key Topics:

- Carlson Survey project workflows, point management, deed correlation, legal descriptions and GIS imagery
- Carlson Field-to-Finish, automated annotation, lot closure checks, line and curve tables, and LotNet subdivision tools
- Carlson Civil case studies, RoadNet templates, intersection grading, profiles and earthwork quantities
- Carlson Hydrology and Precision 3D Hydro workflows for watersheds, storm and sanitary sewers, culverts, detention ponds and utility networks
- Carlson drawing cleanup, 3D polylines, surface

triangulation and machine control exports
- Carlson Photo Capture, Point Cloud and scanning tools for drone imagery, LiDAR, terrain models and stockpile volumes
- Carlson settings standardization, reusable templates, CADnet image merging and drafting shortcuts
- Carlson desktop and SurvCE/SurvPC roundtables covering troubleshooting, cloud sharing, surface staking and GNSS workflows
- Autodesk licensing changes discussed in 2020 and workstation considerations for Carlson users

Sessions In This Series:

- 1-1: Introduction & Welcome, presented by Jennifer DiBona
- 1-2: Overview of Carlson Software, presented by Scott Griffin
- 1-3: Annotation Tips & Tricks, presented by Jeremy Taylor
- 1-4: No Recording
- 1-5: Case Study:Q&A Project Overview of Using Carlson to Create Machine Control Models, presented by Walt Liles
- 1-6: Case Study:Q&A Project Overview of Using Carlson software in civil engineering design projects, presented by Mark Long
- 1-7: Survey Project from Start to Finish with extra Field to Finish and Surface Modeling, presented by Jennifer DiBona
- 2-1: No Recording
- 2-2: Carlson Desktop Software VIP Round Table & Ask the Experts, presented by Dave Carlson, Lon Watson, Leonid Entov and Scott Griffin
- 2-3: No Recording
- 2-4: Carlson P3D & Dynamic CAD VIP Round Table & ASk the Experts, presented by Bruce Carlson, Mark Long and Scott Griffin
- 2-5: Carlson Field Software VIP Round Table & Ask the

Experts, presented by Sara Winter, Jon Gerber and Butch Herter

- 2-6: Overview of Carlson’s Point Cloud Manipulation Program
- 2-7: Autodesk Licensing Changes: Plan for the future and how this will affect Carlson Software Users, presented by Dwayne Tindall
- 3-1: No Recording
- 3-2: Customizing, Migrating and Sharing Settings in Carlson Software, presented by Doug Aaberg
- 3-3: Drawing Cleanup for Model Building and Construction Staking, presented by Walt Liles
- 3-4: Point Cloud Demonstration “at the Booth”, presented by Steve Cummings
- 3-5: Tips & Tricks in CAD & Carlson, presented by Jennifer DiBona
- 3-6: Hot New Features in Carlson 2021, presented by Scott Griffin
- 3-7: Sanitary Sewer Design in Carlson Hydrology, presented by Mark Long
- 3-8: Utility Network Design in Carlson Hydrology, presented by Mark Long

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*These sessions were presented by Jennifer DiBona and Carlson staff*Jennifer DiBona opens the workshop with a welcome,

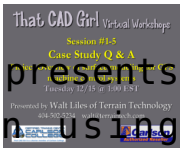
logistics and an overview of the sessions.Scott Griffin presents an overview of Carlson Software products and how they work together.





Jeremy Taylor shares annotation tips and tricks for land surveyors in Carlson and CAD.Walt Liles presents a case study on using Carlson to create machine control models.Mark Long presents a case study on using Carlson in civil and hydrology design projects.

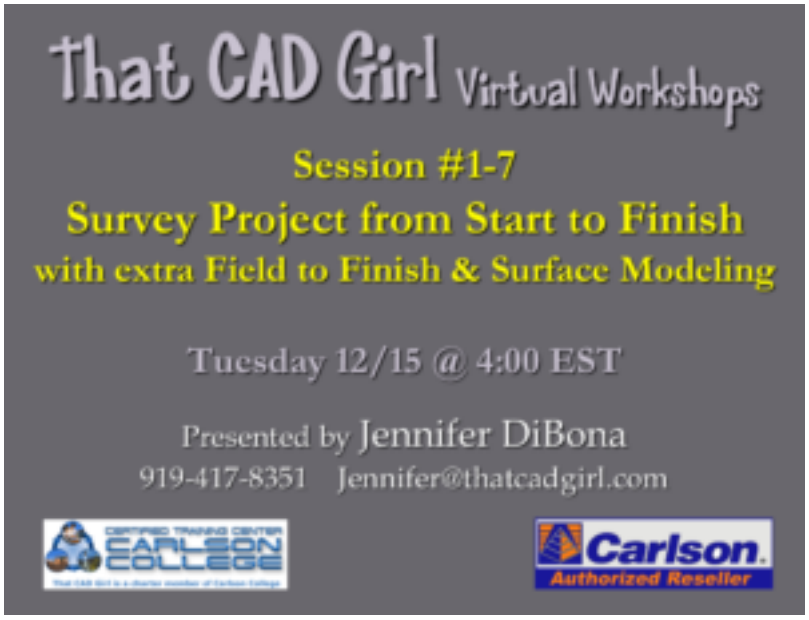






Jennifer DiBona follows a survey project from start to finish

with Field-to-Finish and surfaces.Carlson staff join a desktop software VIP round table to answer user questions.Bruce Carlson leads a Precision 3D Topo, Hydrology and Dynamic CAD VIP round table.





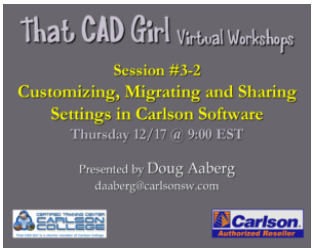


Carlson field software staff answer SurvCE and SurvPC questions in a VIP round table.An overview of Carlson Photo Capture, Precision 3D and Point Cloud tools for drone and s data.Dwayne Tindall of CAD Masters explains Autodesk licensing changes and options for





Carlson users.Doug Aaberg shows how to customize, migrate and share settings in Carlson Software.



Walt Liles covers drawing cleanup for model building and construction staking.Steve Cummings and David Kraus demonstrate Carlson Point Cloud in a virtual booth session.



Jennifer DiBona shares tips and tricks in CAD





and Carlson Software.Scott Griffin highlights the hot new features in Carlson 2021.Mark Long demonstrates sanitary sewer design workflows in Carlson Hydrology.Mark Long covers utility network design workflows in Carlson Hydrology.



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17 Sessions: 2021 Virtual Workshop

A Virtual Workshop series featuring Carlson Software training in CAD standards, survey drafting, surface modeling, grading and survey adjustments.

The 2021 Virtual Workshops combine CAD fundamentals with practical Carlson workflows for surveying, civil design and construction modeling. Jennifer DiBona leads an overview of

Carlson, a basic CAD class, a start-to-finish survey project, Field-to-Finish, surface modeling, site grading and making models from messy drawings. Travis Maxwell covers tips for standardizing Carlson with IntelliCAD, Mark Long shares Civil and Hydrology tips and Doug Aaberg presents Survey tips, advanced Field-to-Finish and traverse adjustment with Carlson GNSS RTK and SurvNet.

Key Topics:

- Carlson CAD fundamentals, configuration, project folders, templates and settings management
- Carlson CAD standards for fonts, blocks, tool palettes, linetypes, plot styles and dimensions
- Carlson Survey workflows for point management, deed entry, boundary correlation and final annotations
- Carlson Field-to-Finish code tables, special codes, automated legends, tree features and pipe networks
- Carlson surface modeling and grading with breaklines, 3D polylines, building pads and daylight slopes
- Carlson drawing cleanup, Civil 3D and LandXML imports, SiteNet takeoff, topsoil quantities and cut/fill analysis
- Carlson Civil and Hydrology tools for RoadNet, storm and sanitary systems, utility crossings and structure libraries
- Carlson Survey traverse and least squares adjustments, GNSS integration, checkpoints and report interpretation

Sessions In This Series:

- 1-1: Introduction & Welcome, Overview of Carlson Software, Presented by Jennifer DiBona
- 1-2: Tips & Tricks for Standardizing Carlson Software with IntelliCAD, presented by Travis Maxwell
- 1-3: No Recording
- 1-4: Tips & Tricks in Carlson Civil & Hydrology, presented

by Mark Long

- 1-5: Tips & Tricks in Carlson Survey, presented by Doug Aaberg
- 1-6: Tips & Tricks in Carlson Software and Wrap Up, presented by Jennifer DiBona
- 2-1: Very Basic Introduction to CAD for Carlson Users, presented by Jennifer DiBona
- 2-2: Introduction to Carlson Software, presented by Jennifer DiBona
- 2-3: Survey Project From Start to Finish, presented by Jennifer DiBona
- 2-4: Basic Introduction to Carlson Field to Finish, presented by Jennifer DiBona
- 3-1: Basics of Surface Modeling in Carlson Software, presented by Jennifer DiBona
- 3-2: Site Grading Project from Start to Finish, presented by Jennifer DiBona
- 3-3: Making Models From A Mess, presented by Jennifer DiBona
- 3-4: Tips & Tricks for Site Grading, presented by Jennifer DiBona
- 4-1: Advanced Field to Finish in Carlson Survey, presented by Doug Aaberg
- 4-2: Advanced Field to Finish in Carlson Survey (continued), presented by Dough Aaberg
- 4-3: No Recording
- 4-4: Traverse Adjustment & Best Practices for Network Solutions with Carlson’s GNSS RTK systems, presented by Doug Aaberg
- 4-5: Traverse Adjustment & Best Practices for Network Solutions with Carlson’s GNSS RTK systems (continued), presented by Doug Aaberg

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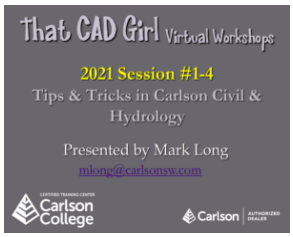
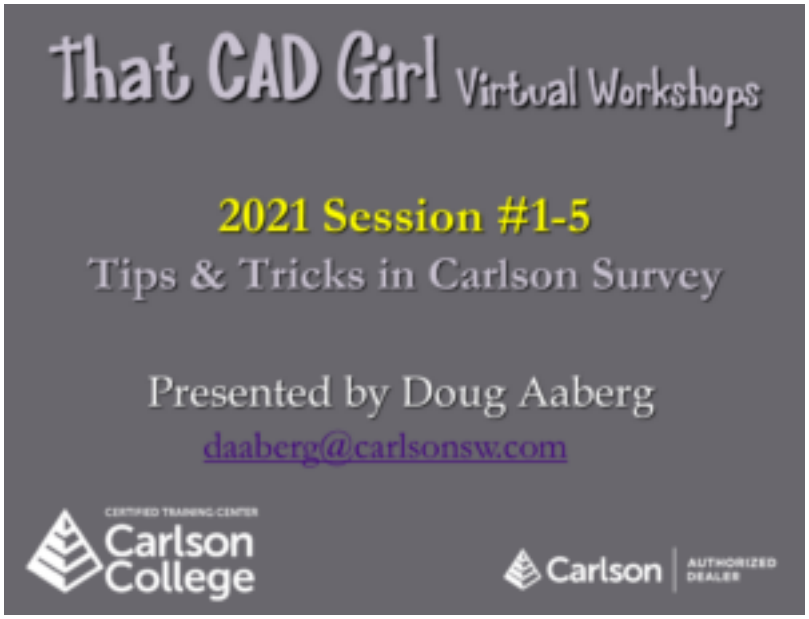
*These sessions were presented by Jennifer DiBona and Carlson staff*Jennifer DiBona welcomes attendees and presents an overview of Carlson Software products.Travis Maxwell shares tips for standardizing Carlson Software with IntelliCAD.Mark Long shares tips and tricks in Carlson Civil and Hydrology.





Doug Aaberg shares tips and tricks for users of Carlson Survey.Jennifer DiBona wraps up with more Carlson Software tips and tricks.





Jennifer DiBona gives a very basic introduction to CAD commands for

Carlson users.Jennifer DiBona introduces Carlson Software setup, menus and core workflows.Jennifer DiBona follows a survey project from start to finish in Carlson Survey.Jennifer DiBona introduces basic Field-to-Finish for automated survey linework and symbols.Jennifer DiBona covers the basics of surface modeling in Carlson Software.Jennifer DiBona follows a site grading project from start to finish.











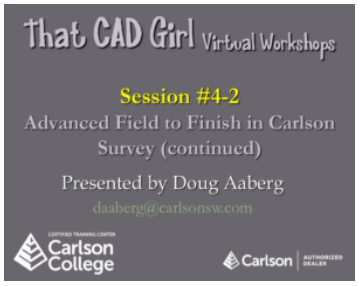


Jennifer DiBona shows how to make machine-control models from

messy CAD drawings.Jennifer DiBona shares tips and tricks for site grading in Carlson.

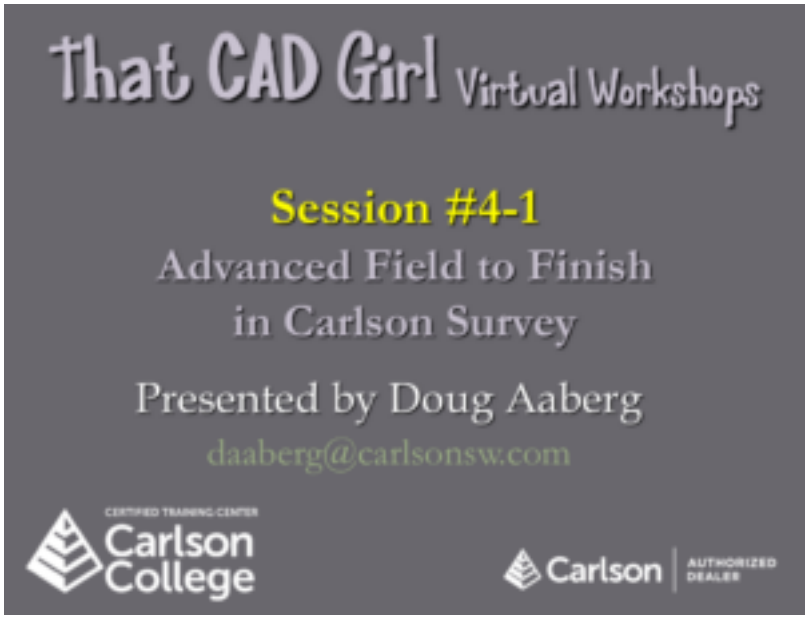


Doug Aaberg begins advanced Field-to-Finish coding techniques in Carlson Survey.Doug Aaberg continues advanced Field-to-Finish coding techniques in Carlson Survey.



Doug Aaberg covers traverse adjustment and





best practices for Carlson GNSS RTK networks. Doug Aaberg continues traverse adjustment and network solution best practices. –



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22 Sessions: 2022 Virtual Workshop

A Virtual Workshop series featuring Carlson Software training in CAD fundamentals, survey workflows, field data collection, hydrology and point cloud processing

The 2022 Virtual Workshops start with CAD fundamentals in IntelliCAD and AutoCAD and an introduction to Carlson, then move into survey, civil and hydrology workflows. Scott Griffin and Carlson staff present a software showcase and round tables on

field software, desktop tools and Precision 3D hydrology. Doug Aaberg leads Field-to-Finish, Mark Long covers civil design and later sessions include user case studies on wet ponds, pervious pavers, fire flow, live field design and tips from Travis Maxwell, Finch & Associates and Bill Dennis.

Key Topics:

- Carlson and IntelliCAD setup, command shortcuts, object snaps and precise drafting
- Carlson CAD standards for layers, blocks, dimension styles, templates and custom linetypes
- Carlson survey points, deed entry and correlation, annotation and legal descriptions
- Carlson Field-to-Finish, TIN surfaces, contours and GIS imagery
- Carlson layouts, viewports, legends, title blocks, sheet sets and PDF plotting
- Carlson 2023 drawing cleanup, CADnet PDF and BIM tools, retaining walls and subdivision layouts
- Carlson SurvPC field least squares, BIM stakeout, map overlays and Cloud data exchange
- Carlson BRx7 GNSS, hybrid robotic surveying and drone hardware demonstrations
- Carlson Hydrology and Precision 3D Hydro pond routing, storm networks and parametric inlets
- Carlson Point Cloud LAS imports, ortho imagery, bare earth extraction and automated feature extraction

Sessions In This Series:

- 1-1: Introduction to CAD, presented by Jennifer DiBona
- 1-2: Introduction to CAD, presented by Jennifer DiBona
- 1-3: Introduction to CAD, presented by Jennifer DiBona
- 2-1: Introduction to Carlson, presented by Jennifer DiBona
- 2-2: Introduction to Carlson, presented by Jennifer DiBona

- 2-3: Introduction to Carlson, presented by Jennifer DiBona
- 3-1: Carlson Software Showcase: Overview of Carlson, presented by Scott Griffin
- 3-2: Carlson Software Showcase: Field Software Round Table, panelists: Sarah Winter, John Gerber, Dough Aaberg & Butch Herter
- 3-3: No Recording
- 3-4: Carlson Software Showcase: Desktop Software Round Table, panelists: Leonid Entov, Lon Watson, Mark Long, Scott Griffin & Doug Aaberg
- 3-5: Carlson Software Showcase: Hydrology & P3D Round Table, panelists: Bruce Carlson, Shan Lu & Mark Long
- 3-6: Carlson Software Showcase: Hydrology & P3D Round Table, panelists: Bruce Carlson, Shan Lu & Mark Long
- 3-7: No Recording
- 4-1: Field to Finish from Start to Finish, presented by Doug Aaberg
- 4-2: Field to Finish from Start to Finish, presented by Doug Aaberg
- 4-3: Field to Finish from Start to Finish, presented by Doug Aaberg
- 5-1: Civil Design in Carlson Software, presented by Mark Long
- 5-2: Civil Design in Carlson Software, presented by Mark Long
- 5-3: Civil Design in Carlson Software, presented by Mark Long
- 6-1: User Case Study: Wet Pond Design for Multi-Family Development, presented by Travis Maxwell
- 6-2: User Case Study: Pervious Paver Parking Lot Design, presented by Finch & Associates
- 6-3: User Case Study: Fire Flow Analysis Case Study, presented by Travis Maxwell
- 6-4: User Case Study: Live Field Design, presented by Bill

Dennis of Civil Design Team LLC

- 6-5: Tips & Tricks in Carlson Software, presented by Travis Maxwell

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*These sessions were presented by Jennifer DiBona and Carlson staff*Jennifer DiBona opens with CAD fundamentals, the IntelliCAD interface and drafting precision.Jennifer DiBona covers layers, properties, blocks, dimension styles and drawing templates.Jennifer DiBona explains linetypes, linetype scales and paper space layouts and viewports.







Jennifer DiBona introduces Carlson 2023 setup, configuration,

project folders and annotation standards.Jennifer DiBona covers annotation settings, templates, CRD points and deed entry



tools.



Jennifer DiBona ties together Field-to-Finish, surfaces, GIS imagery, legends and plotting.Scott Griffin showcases Carlson 2023, including drawing cleanup, Field-to-Finish, CADnet and B tools.Carlson staff discuss SurvPC 7 updates, field least squares, BIM stakeout and map





overlays.

Carlson staff answer desktop software questions on the 2023

release,CUIcustomizationandcivil tools.Bruce Carlson, Shan Lu and Mark Long discuss hydrology workflows and Precision Hydro.Bruce Carlson continues the hydrology and Precision 3D discussion with storm sewer and inlet design.Doug Aaberg starts Field-to-Finish from code tables and special codes through automated linework.Doug Aaberg continues Field-to-Finish with special codes, templates, symbols and layer setup.Doug Aaberg finishes Field-to-Finish with symbol rotation, pipes, trees and automated labeling.Mark Long begins civil design with LotNet subdivision layout and





RoadNet setup.Mark Long continues RoadNet with templates, intersections, super elevation and cul-de-sacs.Mark Long designs sanitary and storm networks and merges surfaces in Carlson Civil and Hydrology.Travis Maxwell presents a wet pond design case study for a multi-family site in HydroNet.Finch & Associates present a pervious paver parking lot stormwater case study in HydroNet.Travis Maxwell presents a fire flow analysis case study with Carlson pressure pipe tools.









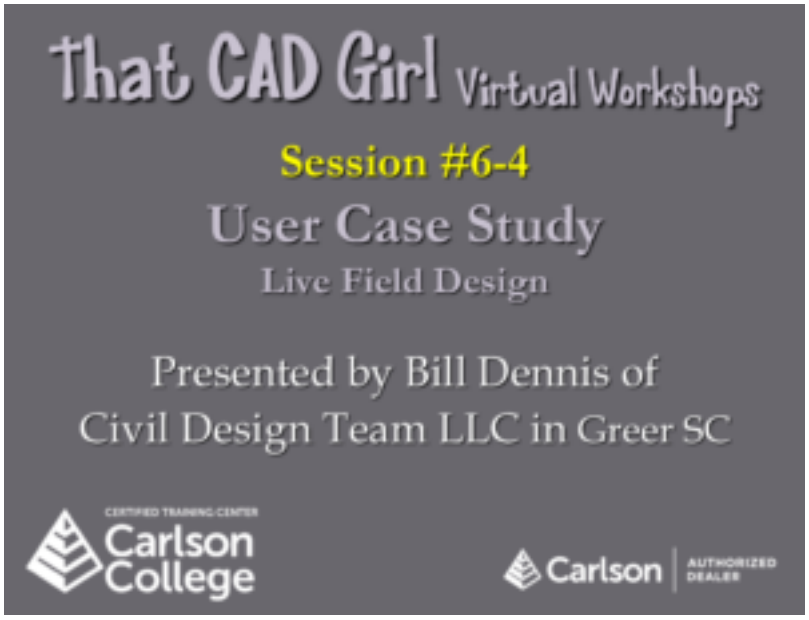




Bill Dennis of Civil Design Team shows live field-to-office GIS

and CAD design techniques.Travis Maxwell shares project-data tips using tables, custom fields, sheet sets and LiDAR.





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8 Sessions: 2023 Virtual Workshop

A Virtual Workshop series featuring Carlson Software training for survey data processing, point clouds, civil design and construction takeoff.

The recorded 2023 Virtual Workshops explore Carlson Software workflows and Carlson 2024 updates for surveyors, civil engineers and construction professionals. Scott Griffin presents an overview of Carlson and what’s new in Carlson 2024 while Doug Aaberg covers Survey, GIS and point clouds. Mark Long demonstrates RoadNet and Civil and Hydrology design while

Jennifer DiBona presents CADnet, SiteNet and Takeoff.

Key Topics:

- Carlson 2024 updates, drawing cleanup, imagery integration and BIM data handling
- Carlson Survey and GIS workflows for Field-to-Finish, feature attributes and shapefile imports
- Carlson Photo Capture and Point Cloud workflows for drone imagery, LiDAR, feature extraction and surface creation
- Carlson survey data processing, coordinate systems, raw data editing and GPS base point corrections
- Carlson Lot Network, RoadNet and Parking Network tools for site design, templates and plan/profile sheets
- Carlson Hydrology workflows for watersheds, runoff calculations, storm pipe sizing and utility crossing checks
- Carlson CADnet workflows for PDF imports, image merging, scaling and digitizing
- Carlson SiteNet workflows for 2D-to-3D conversion, material quantities, topsoil adjustments and machine control exports

Sessions In This Series:

- 1-1 to 2-4 were live.
- 3-1: Overview of Carlson and What’s New in Carlson 2024, presented by Scott Griffin
- 3-2: Overview of Carlson and What’s New in Carlson 2024, presented by Scott Griffin
- 3-3: Overview of Carlson Survey, GIS and Point Cloud, presented by Doug Aaberg
- 3-4: Overview of Carlson Survey, GIS and Point Cloud, presented by Doug Aaberg
- 4-1: Overview of Carlson Civil & Hydrology, presented by Mark Long

- 4-2: Overview of Carlson Civil & Hydrology, presented by Mark Long
- 4-3: Overview of Carlson, CADnet, SiteNet & Takeoff, presented by Jennifer DiBona
- 4-4: Overview of Carlson, CADnet, SiteNet & Takeoff (First 8.5 minutes have no sound), presented by Jennifer DiBona

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

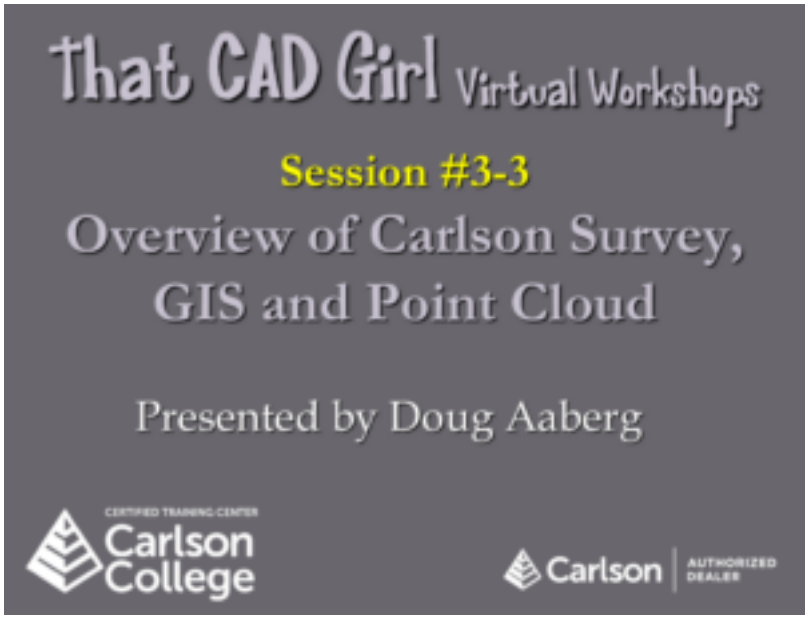
*These sessions were presented by Jennifer DiBona, Scott Griffin, Doug Aaberg or Mark Long.**The first two days were live.***Scott Griffin begins an overview of Carlson and what's new in Carlson 2024.Scott Griffin continues what's new in Carlson 2024, including LotNet, RoadNet and sheet production.

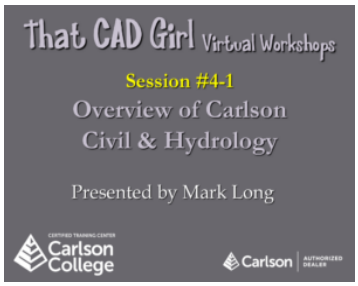




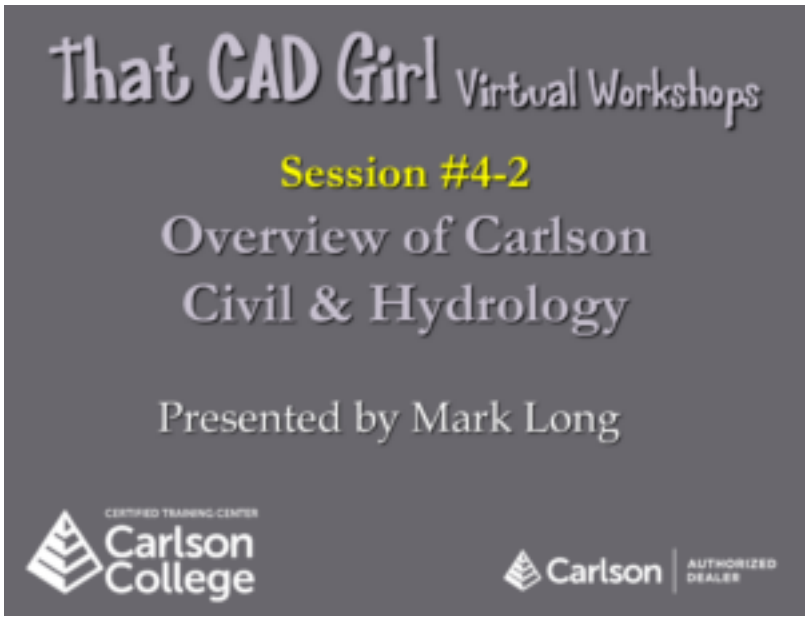
Doug Aaberg begins an overview of Carlson Survey, GIS and point

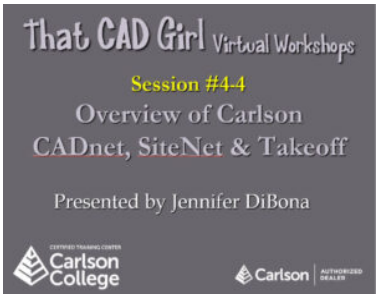
cloud tools.Jennifer DiBona and Doug Aaberg continue the Survey, GIS and point cloud overview.Mark Long demonstrates RoadNet setup, templates, intersections and civil design.





Mark Long covers hydrology, storm drainage and pipe networks in Carlson Civil and Hydrology.Jennifer DiBona overviews Carlson CADnet, SiteNet and Takeoff module workflows.Jennifer DiBona continues CADnet, SiteNet and Takeoff. The first 8.5 minutes have no sound.





16 Sessions: 2024 Virtual Workshop

A Virtual Workshop series featuring Carlson Software training for surveying, surface modeling, construction takeoff and civil design.

The 2024 Virtual Workshops bring together practical Carlson demonstrations for surveyors, civil engineers and construction professionals. Jennifer DiBona, Doug Aaberg, Mark Long and Bruce Carlson overview Carlson Software, Survey and GIS, point clouds and Photo Capture, Civil and Hydrology, Precision 3D and the Takeoff Suite. Later sessions go deeper on advanced Field-to-Finish, SurvNet least squares with Donnie Stallings, surface modeling and advanced civil and hydrology design.

Key Topics:

- Carlson setup, project organization, Civil 3D and LandXML imports, deed entry and lot layout
- Carlson GIS data imports, imagery, feature attributes and field collection
- Carlson Point Cloud and Photo Capture workflows for drone imagery, LiDAR filtering and feature extraction
- Carlson Field-to-Finish code tables, automated linework, symbols and annotations
- Carlson Survey SNET least squares adjustment, residuals, blunder detection and accuracy checks

- Carlson surface modeling, breaklines, 3D polylines, pad grading and cut/fill analysis
- Carlson Takeoff, CADnet and Geotech workflows for PDF data, subgrades, topsoil and material quantities
- Carlson Civil, Hydrology and Precision 3D Hydro workflows for RoadNet, culverts, drainage and utility networks

Sessions In This Series:

- 1-1: Overview of Carlson Software, presented by Jennifer DiBona
- 1-2: Overview of Carlson Survey and GIS, presenter by Doug Aaberg
- 1-3: Overview of Carlson Point Cloud and Carlson Photo Capture, presented by Doug Aaberg
- 1-4: Overview of Carlson Civil and Hydrology, presented by Mark Long
- 2-1: Overview of Carlson Precision 3D Topo and Hydrology, presented by Bruce Carlson
- 2-2: Continuation of Overview of Carlson Precision 3D Topo and Hydrology, presented by Bruce Carlson
- 2-3: Overview of Carlson Takeoff Suite modules, presented by Jennifer DiBona
- 2-4: Continuation of Overview of Carlson Takeoff Suite modules, presented by Jennifer DiBona
- 3-1: Advanced Carlson Survey and Field to Finish, presented by Doug Aaberg
- 3-2: Continuation of Advanced Carlson Survey and Field to Finish, presented by Doug Aaberg
- 3-3: Adjusting YOUR Datasets with SurvNet, presented by Donnie Stallings
- 3-4: Continuation of Adjusting YOUR Datasets with SurvNet, presented by Donnie Stallings
- 4-1: Surface Modeling in Carlson Software, presented by Jennifer DiBona

- 4-2: Continuation of Surface Modeling, presented by Jennifer DiBona
- 4-3: Advanced Design with Carlson Civil and Hydrology, presented by Mark Long
- 4-4: Continuation of Advanced Design with Carlson Civil and Hydrology, presented by Mark Long

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

These sessions were presented by Jennifer DiBona, Doug Aaberg, Mark Long, Bruce Carlson, or Donnie StallingsJennifer DiBona presents an overview of Carlson Software products and how they fit together.Doug Aaberg overviews Carlson Survey and GIS tools and workflows.



Doug Aaberg overviews Carlson Point Cloud and



Carlson Photo Capture.Mark Long overviews Carlson Civil and Hydrology design tools and workflows.Bruce Carlson overviews Carlson Precision 3D Topo and Hydrology tools.Bruce Carlson continues the Precision 3D Topo and Hydrology overview.Jennifer DiBona overviews the Takeoff Suite, including CADnet, Construction, Trench and GeoTech. Jennifer DiBona continues the overview of Carlson











Takeoff Suite modules.Doug Aaberg begins advanced Carlson Survey and Field-to-Finish coding techniques.Doug Aaberg continues advanced Carlson Survey and Field-to-Finish coding techniques.





Donnie Stallings shows how to adjust survey datasets with SurvNet.Donnie Stallings continues the session on adjusting survey datasets with SurvNet.Jennifer DiBona covers practical surface modeling techniques in Carlson Software.Jennifer DiBona continues practical surface modeling techniques in Carlson







Software.Mark Long presents advanced design with Carlson Civil and



Hydrology.



Mark Long continues advanced design with Carlson Civil and



Hydrology.

2020 Virtual Workshop Session #3-6: Hot New Features in Carlson 2021

A Virtual Workshop Using Carlson Software 2021 – Learn to Use new survey, BIM and parking-design

features

This virtual workshop session showcased new and enhanced features in Carlson 2021 software, focusing on Survey, Civil and CADNet modules. Presenter Scott Griffin demonstrated dynamic point attributes, BIM/Revit file integration, road network improvements and advanced parking design tools for surveyors and engineers.

Key Topics:

- Dynamic Point Attributes in Survey module
- BIM/Revit file import and manipulation in CADNet
- Road Network enhancements including hammerhead cul-de-sacs
- New Parking Network and design tools
- Handicap and layout customization features

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

This session was presented by Scott Griffin on 12/17/2020.

2020 Virtual Workshop Session #3-8: Utility Network Design in Carlson Hydrology

A Virtual Workshop Using Carlson Hydrology – Learn to Model detention storage and coordinated utility networks

This virtual Carlson Software workshop, led by Mark Long, provided an in-depth demonstration of detention pond design, hydrology analysis and utility network creation within Carlson Civil and Hydrology. The session covered practical workflows, design parameters and troubleshooting tips for stormwater management and utility modeling.

Key Topics:

- Detention pond design and hydrology setup
- Rainfall data integration and hydrograph generation
- Outlet structure configuration (riser, orifice, weir)
- Utility network creation and pipe crossing management
- Troubleshooting and Q&A with developers

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

This session was presented by Mark Long on 12/17/2020.

2020 Virtual Workshops

Session #3-7: Sanitary Sewer Design in Carlson Hydrology

A Virtual Workshop Using Carlson Hydrology – Learn to Prepare watersheds and design storm drainage networks

This Carlson Software virtual workshop, led by hydrology expert Mark Long, provides an in-depth walkthrough of storm and sanitary sewer design using Carlson Hydrology tools. The session covers watershed setup, pipe network creation, stormwater management and integration with CAD surfaces for accurate drainage modeling.

Key Topics:

- Setting up watershed layers and runoff coefficients
- Designing storm sewer networks and detention ponds
- Creating and editing sanitary sewer systems
- Using Carlson Hydrology’s network, drainage and profile to ols
- Managing surfaces, rainfall data and hydraulic grade lines

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

This session was presented by Mark Long on 12/17/2020.

2020 Virtual Workshops Session #3-5: Tips & Tricks in CAD & Carlson Software

A Virtual Workshop Using Carlson CADnet – Learn to Speed up raster-plan work and routine cad drafting

This virtual workshop, led by That CAD Girl, covers practical CAD and Carlson Software tips and tricks for surveyors, engineers and CAD technicians. The session demonstrates workflows for merging raster images, using Field to Finish, managing polylines, cleaning drawings and creating reusable title block templates.

Key Topics:

- CADNet raster merging and image handling
- Field to Finish setup and automation
- Polyline editing and boundary creation
- Drawing cleanup, block management and title block templates
- Converting spot elevations to Carlson points
- Line type customization and text rotation

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

This session was presented by Jennifer DiBona on 12/17/2020.