

Fast Track to CAD, Microsurvey & Carlson 6 sessions

**A Virtual Classroom series
introducing CAD fundamentals,
MicroSurvey survey
workflows and Carlson setup, point
management and Field-to-Finish**

Getting Started with CAD, Fast Track to MicroSurvey and Getting Started with Carlson provide a practical introduction to drafting and survey software for new and transitioning users. Learn precise coordinate entry, object snaps, editing and layer control before exploring MicroSurvey project setup, construction stakeout and digital terrain modeling. The Carlson sessions connect templates, configuration and coordinate systems with CRD point files, deed processing and Field-to-Finish automation for more consistent survey drawings.

- CAD workspaces, templates, drawing units, command prompts and screen navigation
- Precise linework with coordinate entry, object snaps, selection, editing and inquiry tools
- Layers, colors, lineweights, linetypes and model space and paper space considerations
- MicroSurvey CAD orientation, project setup, coordinate files and point workflows
- MicroSurvey construction layout, stakeout points and layer

organization

- MicroSurvey digital terrain models, surface inputs, breaklines and model inspection
- Carlson startup, project folders, DWT templates, drawing setup and saved configuration
- Carlson CRD points, coordinate systems, layer standards and GIS imagery context
- Carlson deed entry and processing, point groups and Field-to-Finish codes, symbols and non-surface points

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

These sessions were presented by Jennifer DiBona and James Johnston.

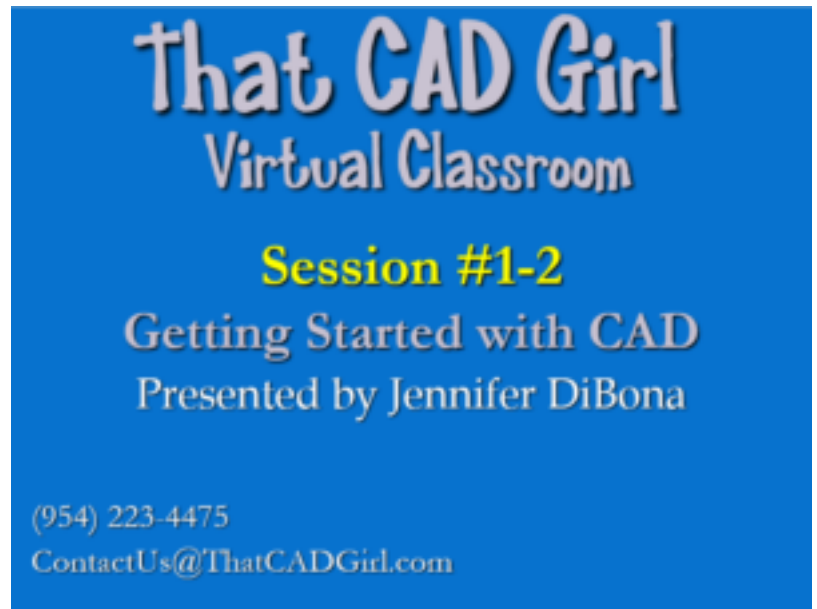
Getting Started with CAD – presented by Jennifer DiBona

Learn the fundamentals of CAD with That CAD Girl's *Getting Started with CAD* training series. This introductory session covers essential CAD concepts, interface navigation, command-line skills, and best practices for working in Carlson, MicroSurvey, and Civil 3D.

Getting Started with CAD – presented by Jennifer DiBona



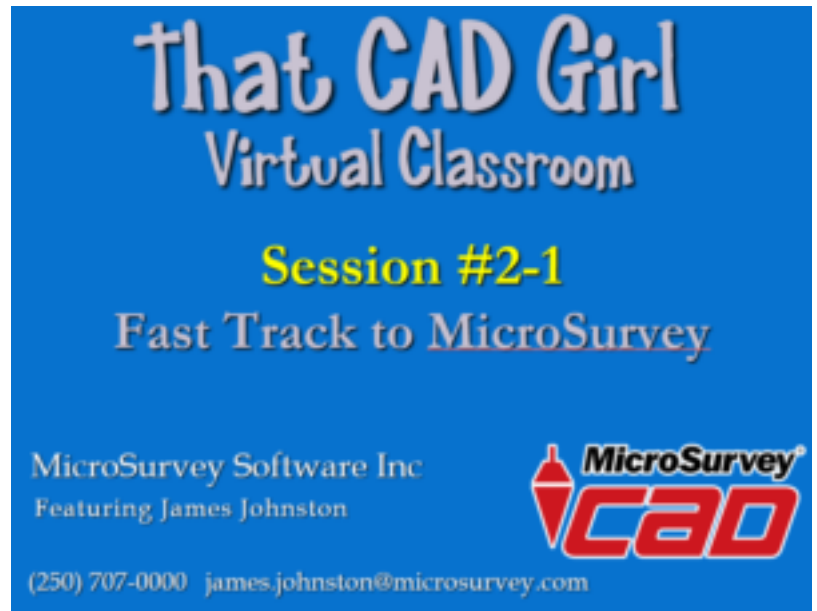
Learn the fundamentals of CAD drafting with this Virtual Classroom covering coordinate systems, line commands, and precision tools in IntelliCAD and Carlson. Discover how to use object snaps, polar coordinates, and ortho mode to create accurate, professional drawings efficiently. **Getting Started with CAD – presented by Jennifer DiBona**



Learn essential CAD drafting and editing skills with That CAD Girl's *Getting Started with CAD* training series. This session covers practical tools, layer management, and real-world workflows for IntelliCAD, AutoCAD, Carlson, and MicroSurvey users. **Fast Track to MicroSurvey – presented by James Johnston**

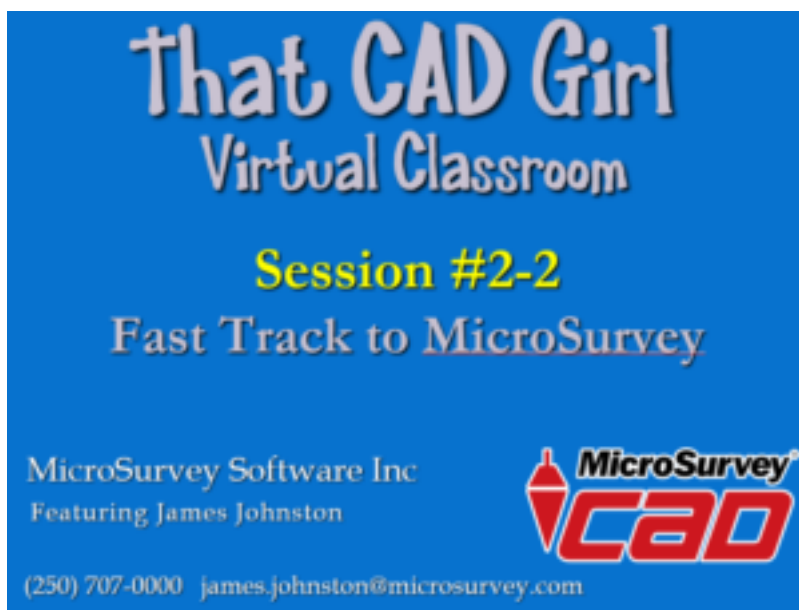


This virtual classroom session introduces MicroSurvey CAD's field-to-finish workflows, focusing on AutoMap configuration, point and linework customization, and data import from FieldGenius and Leica Captivate. Instructor James Johnston demonstrates practical setup, symbol scaling, substitution codes, and project management features for survey and construction professionals. **Fast Track to MicroSurvey – presented by James Johnston**

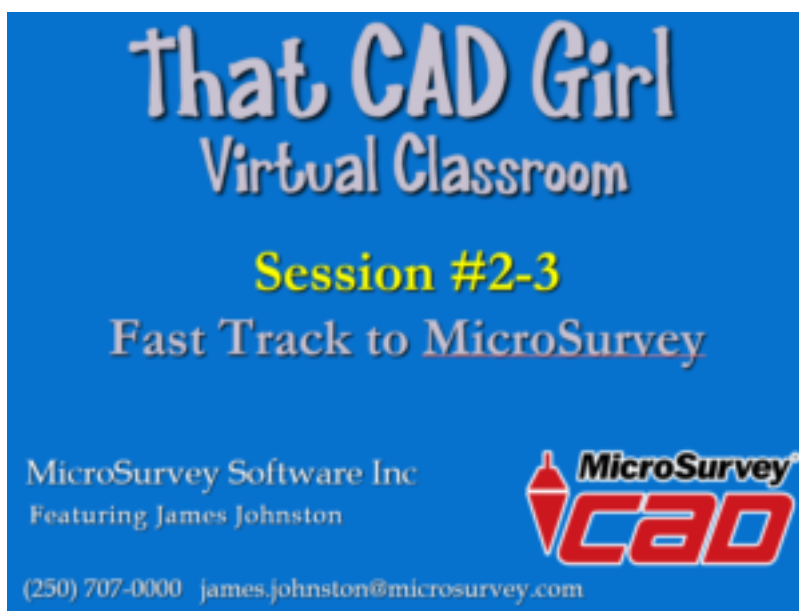


This FastTrack MicroSurvey training session, led by James Johnston, provided a detailed walkthrough of construction workflows in MicroSurvey CAD. Participants learned how to clean up architectural drawings, generate staking points, manage grid

Lines, and export data efficiently for field use. **Fast Track to MicroSurvey – presented by James Johnston**



This MicroSurvey CAD training session covers advanced workflows for survey and civil design professionals, focusing on point management, CAD settings, DTM surface creation, contour generation, and volumetric analysis. The session also includes troubleshooting tips, boundary setup, and an introduction to automated site design tools. **Getting Started in Carlson – presented by Jennifer Di Bona**



Learn how to set up and customize Carlson Software with this in-depth training session led by That CAD Girl. Discover best practices for configuring projects, managing data files, and

optimizing your environment for surveying and civil design. **Getting Started in Carlson – presented by Jennifer Di Bona**



That CAD Girl
Virtual Classroom

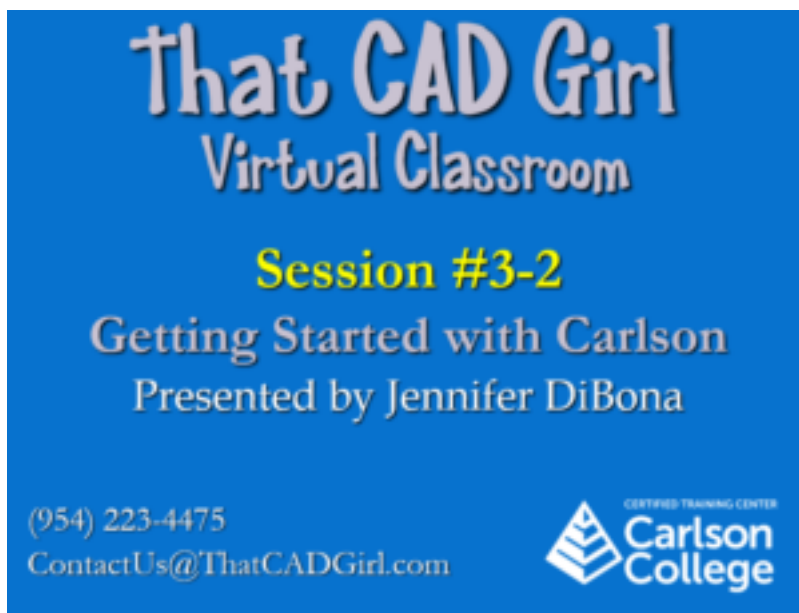
Session #3-1

Getting Started with Carlson
Presented by Jennifer DiBona

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Learn how to create and customize Carlson drawing templates, manage coordinate and point files, and streamline your CAD workflow. This session covers practical steps for building standards, importing survey data, and preparing for field-to-finish automation. **Getting Started in Carlson – presented by Jennifer Di Bona**



That CAD Girl
Virtual Classroom

Session #3-2

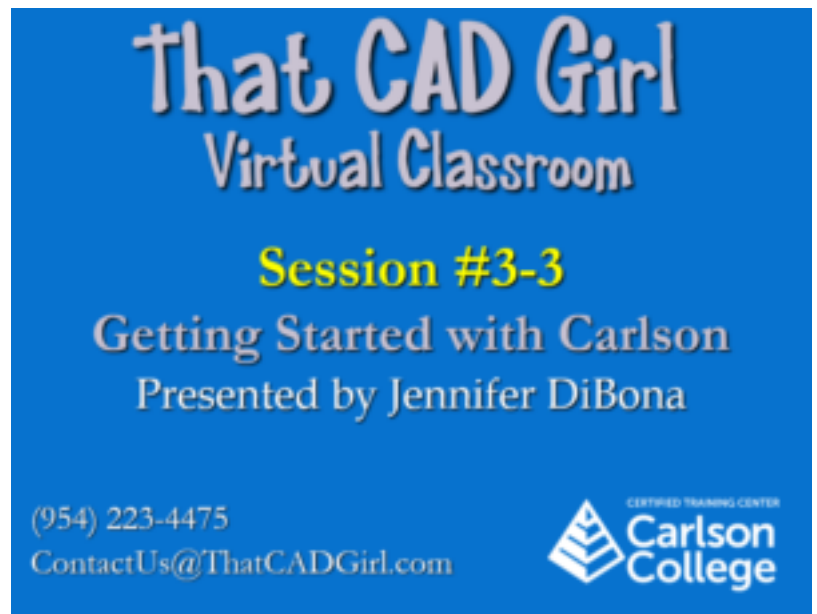
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Learn how to streamline your surveying workflow with Carlson Survey's deed entry, correlation, and field-to-finish tools. This session covers practical CAD automation techniques for accurate boundary creation, point management, and efficient

drafting.



In Depth Carlson Hydrology 6 Sessions

A Virtual Classroom providing in-depth Carlson Hydrology training from beginning to end, with practical hydrology design workflows.

This Virtual Classroom provides a comprehensive introduction to Carlson Hydrology, led by veteran engineer Travis Maxwell, focusing on setup, workflows, and best practices for stormwater modeling and design. Attendees learn how to configure libraries, manage sewer networks, and apply hydrologic methods such as SCS

and Rational within Carlson Software.

Key Topics:

- Carlson Hydrology module overview and setup
- Sewer and storm network configuration
- Use of SCS and Rational methods for runoff and detention
- Inlet libraries, rainfall data, and HydroNet integration
- Best practices for file management and dynamic modeling

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These sessions were presented by Travis Maxwell. This training provides a comprehensive introduction to Carlson Hydrology, led by veteran engineer Travis Maxwell, focusing on setup, workflows, and best practices for stormwater modeling and design. Attendees learn how to configure libraries, manage sewer networks, and apply hydrologic methods such as SCS and Rational within Carlson Software. This in-depth Carlson Hydrology training session focuses on converting Civil 3D data, building terrain surfaces, and designing stormwater networks using Carlson software. The webinar demonstrates practical workflows for integrating utilities,



creating ponds and managing storm drainage systems efficiently. This session continues the in-depth Carlson Hydrology training with a focus on storm sewer network modeling, watershed delineation, and hydraulic grade line analysis. Instructor Travis Maxwell demonstrates practical workflows for drainage area setup, pipe sizing, spread analysis, and custom symbol management within Carlson Civil software. This session continues the in-depth Carlson Hydrology training, focusing on collection systems, utility networks, and HydroNet detention modeling. Travis demonstrates advanced workflows for managing project files, creating profiles, checking crossings, and setting up

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IN-DEPTH
CARLSON HYDROLOGY
Session #1-2

Presented by Travis Maxwell
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IN-DEPTH
CARLSON HYDROLOGY
Session #1-3

Presented by Travis Maxwell
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hydrologic models in Carlson Civil and Hydrology. This session is part of the In-Depth Carlson Hydrology training series, focusing on advanced hydrology design workflows in Carlson Civil and Hydrology. The instructor demonstrates practical tools for surface modeling, watershed analysis, detention pond design, and HydroNet modeling. This final session of the In-Depth Carlson Hydrology training series covers advanced hydrology modeling techniques using Carlson Hydrology and HydroNET. The instructor demonstrates stream delineation, stage-storage modeling, chamber design, and integration with HydroCAD for

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**IN-DEPTH
CARLSON HYDROLOGY**

Session #2-1

Presented by Travis Maxwell

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design, and HydroNet modeling. This

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**IN-DEPTH
CARLSON HYDROLOGY**

Session #2-2

Presented by Travis Maxwell

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comprehensive stormwater man



Standardizing Layers, Linetypes & Dimensions

A Virtual Webinar Using Carlson Software – Learn to Standardize CAD Drawings

This webinar by That CAD Girl covers how to standardize CAD drawings using the National CAD Standard (NCS) within Carlson Software and AutoCAD. It explains best practices for managing layers, linetypes and dimension styles to ensure consistency across civil and survey projects.

Key Topics:

- National CAD Standard (NCS) layer naming and structure
- Carlson template and layer library management
- Linetype scaling, polyline generation and plotting behavior
- Dimension style creation and scaling for different drawing types

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This session was presented by Jennifer DiBona on 05/07/2024.

Importing Publicly Available Lidar for Surface Creation

A Virtual Webinar Using Carlson Software – Learn Publicly Available LiDAR for Surface Creation

This Carlson Software webinar demonstrates how publicly available LiDAR can be downloaded, filtered, thinned and prepared for surface creation. Travis Maxwell shows how LAS and LAZ point-cloud files, LAS tools batch processing, Carlson grid files, contours and Google Earth checks can support preliminary terrain modeling workflows.

Key Topics:

- Public LiDAR sources and download workflow

- LAS and LAZ file handling
- Class 2 ground-point filtering
- Grid-file surface creation in Carlson
- Contour review and Google Earth verification

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This session was presented by Travis Maxwell on 06/14/2023.

Importing Publicly Available Lidar for Surface Creation

A Virtual Webinar Using Carlson Software – Learn Publicly Available LiDAR for Surface Creation

This webinar, led by Travis Maxwell and hosted by That CAD Girl, demonstrates how to import and process publicly available LiDAR data to create accurate surface models in Carlson Software. Attendees learned step-by-step methods for downloading, filtering and converting LiDAR datasets using LAS tools and Carlson's surface modeling features.

Key Topics:

- Downloading LiDAR data from the USGS National Map and state repositories
- Using LAS Tools to preprocess and filter LiDAR point cloud

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- Creating surfaces and contours in Carlson Software
- Managing precision and file size for optimal performance
- Legal and practical considerations for using public LiDAR data

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This session was presented by Travis Maxwell on 04/12/2023.

Introduction to Carlson Software – Settings, Setup, Configuration & Points

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

This introductory Carlson Software webinar guides new users through configuring settings, templates and point management in Carlson Survey and Civil modules. It covers installation defaults, project folder organization, drawing templates and practical workflows for creating and editing points.

Key Topics:

- Carlson Configure and default settings

- Project and data folder setup
- Drawing templates and DWT management
- Point creation, linking and editing
- Help resources and version/build management

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This session was presented by Jennifer DiBona on 01/06/2021.

Creating & Using Points for Construction Staking

A Virtual Webinar Using Carlson Software – Learn to Create Construction Points

This webinar, hosted by That CAD Girl and presented by Walt Liles of Terrain Technology, provides a detailed walkthrough of creating and managing points in Carlson Software for construction and surveying workflows. Attendees learned how to generate, edit, export and apply point data for field staking, modeling and data collection.

Key Topics:

- Setting up a new CRD coordinate file
- Draw-Locate Points settings, point numbering series and layers

- Listing and editing points in the CRD file
- Creating points at intervals along entities in Carlson Survey
- Exporting point ranges to text files for data collectors
- Importing Civil 3D points and creating back of curb offset points

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This session was presented by Walt Liles on 10/20/2021.

Making Models from a Mess

A Virtual Webinar Using Carlson Software – Learn to Make Models from Messy Drawings

This webinar demonstrates Carlson Software's toolkit for transforming messy 2D CAD data into clean, 3D-ready models for surface creation, staking and machine control. It walks users through practical cleanup workflows, layer management, elevation-setting commands and essential drawing preparation steps.

Key Topics:

- Cleaning and preparing CAD drawings for 3D modeling
- Using Carlson commands to elevate 2D polylines to 3D
- Managing layers, spot elevations and contours efficiently

- Combining and repairing data from multiple files for site modeling

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This session was presented by Jennifer DiBona on 04/18/2019.

Overview of Carlson GIS

A Virtual Webinar Using Carlson GIS – Learn to Manage, Query and Label GIS Databases

This webinar provides a hands-on overview of Carlson GIS tools for importing, editing and managing spatial datasets in CAD. It demonstrates how to work with ESRI shapefiles, define GIS features, link drawing entities to databases, create queries and reports and add georeferenced imagery.

Key Topics:

- Importing and linking ESRI shapefiles
- Creating and editing Carlson GIS databases (MDB/Access)
- Data queries, labeling and GIS Inspector tools
- Integration with Google Earth and web map services
- Building custom GIS datasets from CAD or Excel data

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This session was presented by Jennifer DiBona on 04/18/2018.

Features of Carlson Survey & Civil – Setting Points and Stakeout

A Virtual Webinar Using Carlson Software – Learn to Set Points from Entities, Offsets and Slopes

This Carlson Software webinar shows several ways to set points in Carlson Survey and Civil for layout and stakeout. The session covers applying a surveyor's Field to Finish (FLD) file in Civil, creating points from lines, arcs and GIS shapefile data with Create Points from Entities, setting building offset points, interpolating points and elevations, labeling surface-linked spot elevations and using Points by Slope to set curb break points for a proposed surface.

Key Topics:

- Using a shared Field to Finish (FLD) file in Carlson Civil through Point Defaults for point symbols and layers
- Create Points from Entities for lot corners and radius points, GIS hydrants and manholes and per-entity descriptions
- Building Offset Extensions and Draw Building Envelope

Polyline for offset staking points

- Interpolate Points: divide and interval methods between points or along entities, plus elevations between points
- Surface Inspector and surface-linked Draw Spot Elevations that update with Move Spot Elevations and a rewritten TIN
- Points by Slope for curb break points with reference and target points, elevations and grade

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This session was presented by Jennifer DiBona on 02/21/2017.