Advanced Carlson Hydrology & P3D with Mark Long of Carlson Software
Recorded 07/24/2018

This webinar, hosted by That CAD Girl and presented by Mark Long of Carlson Software, explores advanced techniques in Carlson Hydrology and Precision 3D (P3D). It demonstrates how to integrate watershed modeling, storm drainage design, and 3D visualization for efficient civil engineering workflows.

Key Topics:

- Carlson Hydrology fundamentals and watershed layer setup
- Precision 3D (P3D) integration for stormwater design
- Surface modeling, runoff coefficients, and drainage networks
- Use of LIDAR and Google Earth data for terrain modeling
- Workflow between CAD-based hydrology and 3D visualization

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

This session was presented by Mark Long on 07/24/2018.

Advanced Carlson Hydrology

Recorded 9/10/2020

This advanced Carlson Hydrology webinar, presented by Mark Long and hosted by That CAD Girl, walks users through practical storm water and utility network design workflows in Carlson Civil and Hydrology. The session covers setup, configuration, and design o f storm, sanitary, and water networks using real subdivision exa mples.

Key Topics:

- Carlson Hydrology module overview and setup
- Storm drainage design workflow and automation
- Sanitary sewer and utility network creation
- Surface models, rainfall data, and watershed setup
- Profile drawing and conflict checking

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This session was presented by Mark Long on 09/10/2020.

2016 Virtual Classroom – Survey & GIS Virtual Workshop – Session 6

Recorded 05/17/2016

This session of the Surveying GIS Virtual Workshop focuses on transforming 2D CAD drawings into 3D models for use in surveying, construction stakeout, and model building. It provides step-by-step demonstrations of Carlson Software tools for elevating, labeling, and cleaning up engineering drawings to prepare accurate 3D surfaces.

Key Topics:

- Converting 2D entities to 3D using Carlson Civil tools
- Elevating building pads, curbs, and contours
- Cleaning and preparing engineering drawings for modeling
- Managing layers, blocks, and Civil 3D/Land Desktop data
- Creating working drawings and exporting surfaces

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This session was presented by Jennifer DiBona on 05/17/2016.

2016 Virtual Classroom – Survey & GIS Virtual Workshop – Session 5

Recorded 05/17/2016

This session of the Survey and GIS Virtual Workshop provided a detailed walkthrough of Carlson Software's Field to Finish functionality, led by Scott Griffin. The presentation demonstrated how to automate drawing creation from field data, manage codes, and integrate 3D elements, pipes, and GIS attributes within Carlson Survey.

Key Topics:

- Carlson Field to Finish setup and workflows
- Code tables, special codes, and feature types (Tree, Pipe, Topo)
- Creating 3D trees, pipes, and curb templates
- Generating tree legends, SEW files, and 3D PDFs
- Importing and converting PDF files using CADnet

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This session was presented by Scott Griffin on 05/17/2016.

2016 Virtual Classroom – Survey & GIS Virtual Workshop – Session 4

Recorded 05/17/2016

This virtual class, hosted by That CAD Girl and presented by Jeremy Taylor, provides a comprehensive overview of Carlson's field software—SurvCE and SurvPC—and demonstrates practical workflows for survey data collection, cloud file sharing, and GPS/localization setup. The session also covers integration with Carlson Survey desktop software and best practices for efficient field-to-office coordination.

Key Topics:

- Differences between SurvCE and SurvPC
- Using Carlson Cloud for file transfer and collaboration
- Job setup, configuration, and data management
- Integration with total stations and GPS rovers
- Working with CAD files and alignments in the field
- Ground vs. grid coordinate handling and localization

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This session was presented by Jeremy Taylor on 05/17/2016.

2016 Virtual Classroom – Survey & GIS Virtual Workshop – Bonus Lunch Session 3

Recorded 05/17/2016

This session of the Survey and GIS Virtual Workshop features a demonstration of Carlson Software's Precision 3D Topo, led by Nathan Cruise. The presentation showcases surface editing, visualization, field-to-finish workflows, and 3D modeling capabilities for survey and design professionals.

Key Topics:

- Precision 3D Topo features and workflows
- Surface editing and visualization tools
- Field-to-finish automation and 3D modeling
- Importing and managing survey data
- Auto texturing and presentation tools

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This session was presented by Nathan Crews on 05/17/2016.

2016 Virtual Classroom – Survey & GIS Virtual Workshop – Session 2

Recorded 05/17/2016

This Carlson Survey training session, led by Jeremy Taylor and hosted by That CAD Girl, provides a detailed walkthrough of traverse adjustment workflows using Carlson Survey's raw data editor and processing tools. The session also covers creating cut sheets for construction staking and introduces least squares adjustments and SurvNet integration.

Key Topics:

- Traverse adjustment and raw data processing in Carlson Survey
- Angle balancing, compass and least squares adjustments
- Cut sheet creation for construction staking
- Integration with SurvCE and SurvNet

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This session was presented by Jeremy Taylor on 05/17/2016.

2016 Virtual Classroom – Survey & GIS Virtual Workshop – Session 1

Recorded 05/17/2016

This session from That CAD Girl’s 2016 Virtual Workshop introduces practical tips and workflows for survey and GIS users in Carlson Software. It covers deed entry, control point search, georeferencing, Google Earth and Esri map integration, and creating GIS databases directly within Carlson.

Key Topics:

- Entering and correcting deed descriptions in Carlson Survey
- Using “Search Published Control” for NGS monuments
- Georeferencing drawings and importing imagery from Google Earth or Esri ArcGIS
- Integrating GIS data with SurvCE/SurvPC for field collection
- Building a GIS database and performing attribute queries in Carlson GIS

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This session was presented by Jennifer DiBona on 05/17/2016.

2016 Virtual Classroom – Civil & Hydrology Virtual Workshop –

Session 6
Recorded 05/24/2016.

This session of the Carlson Civil & Hydrology training series provides a detailed walkthrough of hydrology workflows, watershed setup, storm drainage design, and detention pond modeling within Carlson Civil. Instructor Mark Long demonstrates practical, step-by-step methods for defining watershed layers, calculating runoff, designing storm networks, and creating detention ponds using Carlson's hydrology tools.

Key Topics:

- Watershed layer setup and runoff coefficient calculation
- Hydrology methods: Rational, SCS, and HydroCAD
- Storm drainage network creation and pipe design
- Time of concentration and peak flow calculations
- Detention pond design and stage-storage analysis

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This session was presented by Mark Long on 05/24/2016.

2016 Virtual Classroom – Civil & Hydrology Virtual Workshop –

Session 5
Recorded 05/24/2016.

This session of the Civil & Hydrology workshop, led by Mark Long from Carlson Software, provides a detailed walkthrough of road network design using Carlson Civil 2017. The training covers creating centerlines, profiles, templates, intersections, cul-de-sacs, and pad grading, with a preview of hydrology integration.

Key Topics:

- Road Network (RoadNet) setup and configuration
- Creating and editing templates, profiles, and intersections
- Cul-de-sac and knuckle design
- Pad grading and surface modeling techniques
- Integration with hydrology modeling workflows

This session was presented by Mark Long on 05/24/2016.