

Using Point Clouds in AutoCAD Civil 3D

ESP Associates, P.A. **Brian Flaherty, PLS**
Leica Geosystems **Michael Harvey**

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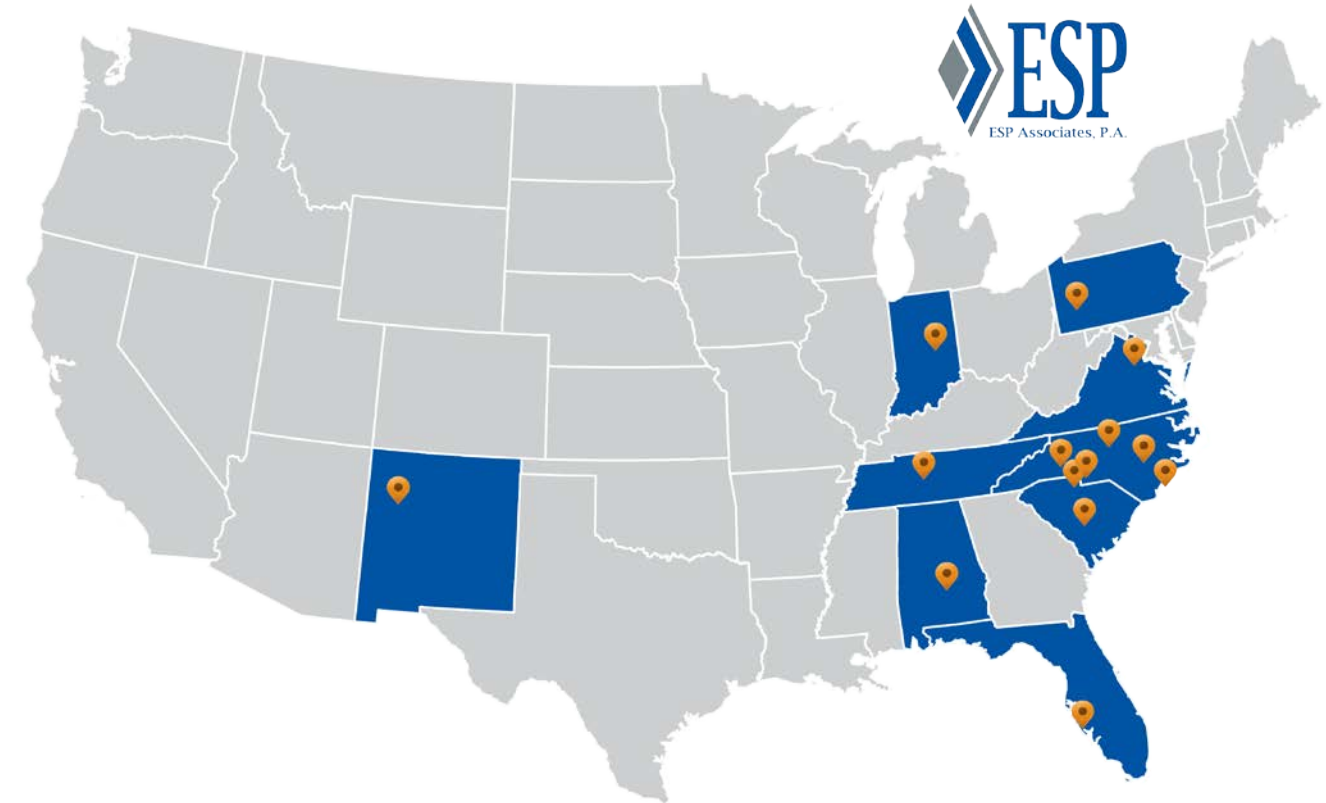


Using Point Clouds in AutoCAD Civil 3D

- Biography
- Collection
- Processing
- Extraction
- Summary

BIOGRAPHY

- **ESP Associates, P.A. (ESP)**
 - Founded in 1986
 - Engineering, Land Planning, Surveying Geotechnical and GIS Services
 - Headquarters in Fort Mill, SC
- **Brian Flaherty, PLS (NC)**
 - With ESP Since 1996
 - Survey Manager/Technical Specialist
 - Private Pilot/Part 107 UAS Remote Pilot



BIOGRAPHY

- **Leica Geosystems**
 - Founded in 1819 in Aarau, Switzerland
 - Now part of Hexagon AB, Sweden
 - Offers Products Worldwide
- **Michael Harvey, HDS Products Application Manager - NAFTA**
 - 17 years experience in the laser scanning field
 - Created comprehensive training materials for the HDS laser scanning business
 - Rolled out product launches for the NAFTA region



COLLECTION – CURRENT TOOLS

Terrestrial LiDAR



Mobile LiDAR



UAS Services



COLLECTION – CURRENT TOOLS

- Terrestrial LiDAR
 - C10
 - P20
 - P40
 - HDS 7000
 - BLK360



COLLECTION – CURRENT TOOLS

- Mobile LiDAR
 - Trimble MX8
 - Riegl VMX-1HA



COLLECTION – CURRENT TOOLS

- UAS Services
 - MD4-1000
 - DJI – Phantom Pro3



Processing

- Autodesk Civil 3d
 - Cloudworx (Leica)
 - ReCap
 - JetStream
 - Cyclone (Leica)
 - ReCap

Extraction – Case Studies

- Mirabella – Meritage Homes
 - UAV Acquisition
- Carowinds – Cedar Fair Entertainment
 - Terrestrial LiDAR
- I-40/Blueridge Parkway - NCDOT
 - Mobile LiDAR
- Leica Geosystems Office – Newport, RI
 - BLK360

THANK YOU