

CARR ENGINEERING, INC.

12500 CASTLEBRIDGE DRIVE HOUSTON, TX 77065-4532

TELEPHONE: 281-894-8955

FAX: 281-894-5455

Nicholas B. Foret

Specialized Professional Competencies

- Application of 3D analysis technology to produce scientific results in any field
- Finding and extracting 3D evidence from only existing photographs and or video using three-dimensional photogrammetry
- Creating accurate as-built 3D models of vehicles and scenes from survey points or scan data
- Alignment and analysis of 3D vehicle/object damage
- Assisting engineers with forensic investigation, analysis, and documentation of crashes
- Animation of 3D vehicles in 3D scenes to produce an accurate and realistic result based on a reconstruction
- Creation and application of lighting and textures to produce realistic looking 3D reconstructions
- Video editing/production to tell a clear story
- 2D graphics and illustration
- Proficient in most forms of 3D data collection and processes used to polygonise and use of the data collected.
- Proficient with the following equipment: Nikon/Leica Laser Total Station, FARO Focus, Atos structured light, Leica Scan Station, and FaroArm.
- Proficient with the following software: Adobe After Effects, Adobe Photoshop, GeoMagic, Adobe Premier, TopoGun, Atos Gom, Autodesk AutoCAD, Z-Brush, Autodesk 3Ds Max, Unreal Engine, Faro Scene, Polymorph Polyworks, Substance Painter.

Professional Experience and Qualifications

- Associate of Applied Science, Art Institute of Houston, 2001
- 3-Dimensional Computer Specialist, Carr Engineering, Inc. (2011 to present)
- 3-Dimensional Modeling, Animation, Video Editing, Photography, 3D Scanning, 2D Graphics, Studio Works, LLC (2001-2011)

Professional Development

- SAE Technical Paper 2008-01-0163, "A Three-Dimensional Crush Measurement Methodology Using Two-Dimensional Photographs"; Conducted all 3D analysis work.