

JOHN KEVIN BREEN

PO Box 310 • Rochester, New Hampshire 03866 • (603) 516-4560

Professional Experience

2004-Present

McNally & Associates Accident Reconstruction Services, LLC | Rochester, NH

Forensic Artist

Prepares scaled scene diagrams using Autodesk AutoCAD software. Creates 3D animations utilizing Autodesk 3ds Max. Interprets and inputs data from fieldwork, provided reports, photographs, video, aerial data and other sources. Modifies and positions vehicles and other objects to represent time-based events. Utilizes Adobe Photoshop and Premiere Elements software for image and video editing and analysis. Creates large-format color displays of graphics and photographs for use in the litigative process.

Field Data Technician

Operates a total station instrument and data collector in the measuring of accident scene geometry, vehicle dimensions and damage profiles. Assists in photographic and hand-measured data acquisition.

Network/Website Administrator

Installs, configures and maintains software and hardware on PC-based systems including products from Microsoft, Adobe, Autodesk and others. Customizes and trains associates in use of software and hardware products. Designs and maintains company presence.

1999-2013

Granite State Graphics | Dover, NH

Proprietor

Oversaw daily operations of company including customer relations, product promotion, and other business-related decisions. Created 3D forensic animations from collected field data, written reports, photographs, video and other sources. Produced large-format displays for use in litigation. Performed still image and non-linear video editing.

1995-2004

Northeast Collision Analysis, Inc. | Rochester, NH

Senior Graphics Technician

Created forensic animations from collected field data, written reports, photographs, video and other sources. Produced large-format diagrams, analog and digital output for litigative purposes. Collected field data relating to accident scene geometry and roadway evidence. Created scaled diagrams for internal and litigation use.

Network/Website Administrator

Installed, configured and maintained software and hardware on PC-based systems including products from Microsoft, Adobe, Autodesk and others. Customized and trained associates in use of software and hardware products. Designed and maintained company presence.

McNally & Associates

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Professional Experience (continued)

Software/Hardware Support

Installed and trained associates in a wide variety of hardware and software on the PC platform. Maintained peer-to-peer network and company website.

1992-1995

PC Doctor/Vertronics, Inc. | North Hampton, NH

Sales Representative

Worked directly with customers in analyzing their personal computer needs. Communicated directly with software and hardware vendors in addressing customer concerns and questions. Provided written quotes, warranty information, and other correspondence to potential customers.

Personal Computer Technician

Performed a wide variety of hardware services including repair and maintenance of PC's, monitors, printers (including laser, inkjet, and dot matrix), and network components. Repaired and diagnosed internal components including motherboards, RAM, hard drives, and controller boards. Assembled computers from component (board) level up to completed systems. Trained associates in various aspects of personal computer repair.

1989-1992

PC Warehouse | Dover, NH

Store Manager

Complete sales of various brands of PCs, software, and peripherals. Recommended systems based on customer needs including current and future requirements. Responsible for inventory control, store layout and product display. Maintained and recorded system purchases, repairs, and upgrades. Tested and evaluated new products. Provided customers with software solutions, upgrades, and customizations to solve specific problems. Researched obscure or otherwise nonstandard hardware products for use in specialized applications.

1987-1989

Berry Surveying and Engineering | Rochester, NH

Crew Chief

Performed boundary searches and surveys, topographical surveys, mortgage surveys, level loops, perc tests, and test pits. Identified and recorded locations of property markers, fences, buildings, roads, and other stationary reference points using a transit and EDM. Researched property histories at town and county offices using title deeds, tax maps, and probate records.

Professional Experience (continued)

Engineering Assistant

Aided in performing drainage analysis and environmental impact studies as well as the creation of road, subdivision, and septic system designs. Attended town meetings and utilized tax and topographical maps. Specifically worked with Topcon, Kern, and Nikon transits, theodolites, and electronic distance meters. Also used a Calcomp digitizer to input coordinated figures. Experience includes use of topo rods, foresights, tape measures, plumb bobs, and other survey equipment.

Education and Training

Forensic Video Solutions, LLC

Video Examinations for the Police Investigator

August 14-15, 2019, Manchester, NH

Core topics covered: Digital video terminology; Vehicle/Surveillance/Body camera video characteristics; Video codec and compression issues; Proprietary player issues; Aspect ratio identification; Lens distortion issues; Clipped tonal values; Video interlacing; Spatial and temporal compression; Refresh rates; Non-destructive video analysis methods; Non-linear editing (zooming, cropping, concatenating; sequencing; subclip generation; image enhancement for detail extraction); Video hashing; Metadata analysis; Audio/video synchronization; General use of Input-Ace software

Eos Systems Technology

PhotoModeler

January 24-26, 2006, Jacksonville, FL

Core topics covered: Photography techniques; Scene diagramming and mapping from photos; Application for scene and crush measurements; Evaluating accuracy and developing standard operating procedures; Exporting to CAD software for diagramming; Obtaining measurements from single photos and/or photos from an unknown camera; Photorealistic surfacing for visualizations and rendering; Nighttime photography issues; Sub-pixel marking; Retro-reflective target issues; Ortho-photo and rectified-photo generation; Admission of photogrammetry and PhotoModeler end-product into court.

McNally and Associates ARS, LLC office

Total Station Mapping

February, 2005, Dover, NH

Completed 16-hour equivalency course presented by Sokkia Corporation in the use of their instruments for total station scene mapping.

Education and Training (continued)

Morgan Press

How to Control Color from Monitor to Printer

April 12, 2005, Manchester, NH

Core topics covered: Matching of scanned/digital images to final output; Color gamuts and profiles; Limitations and strengths of various color spaces; Output techniques designed to increase impact and accuracy.

Future Media Concepts, Inc.

Kinetix 3D Studio MAX Level II

August 18 & 19, 1997, Manhattan, NY

Core topics covered: General use of Kinetix 3D Studio MAX (now Autodesk 3ds Max); Morphing; Inverse kinematics; Standard lighting and shadows, Material Editor use including the creation of complex materials; Sub-object mapping and ID assignments; IK hierarchies (including binding to follow objects); Volumetric effects; Advanced box modeling techniques; Motion controllers.

Morgan Press

Scanning, Photoshop and Prepress

May 6-8, 1997, Manchester, NH

Core topics covered: Use of flatbed scanners; Adobe Photoshop overview (including selection techniques, layers, color curves and plug-ins); Resolution differences and effects; Service bureau terminology; Solutions for working with different media types including output and digital storage; Compositing methods.

University of North Florida Institute of Police Technology and Management

Advanced Traffic Accident Investigation

March 11-22, 1996, St. Petersburg, FL

Completed an 80-hour Course in Advanced Accident Reconstruction.

Core topics covered: Application and discussion of equations for determining time-distance relationships; Vehicle dynamics; Human factors; Vehicle damage analysis; Roadway evidence interpretation; Conservation of linear momentum; Minimum speed approach and application; Working of problems involving multiple collisions, vaults, free-falls and various road surfaces.

JOHN KEVIN BREEN

Education and Training (continued)

DTI Technologies, Inc.

June 1, 1995, Bedford, NH

Core topics covered: Use of Autodesk 3D Studio Software (now Autodesk 3ds Max) including 2D shape creation, 3D lofting, and 3D modeling; Creation and placement of lights and cameras; Material editing and application; Mesh model creation, editing and placement; Keyframing; Output rendering; Compositing; Use of IPAS routines.

SIGGRAPH 95, SIGGRAPH 96, SIGGRAPH 97

1995-1997, New Orleans, LA and Los Angeles, CA

Attended exhibition of professional advanced computer animation software and hardware products; reviewed and discussed specific product functions, technical aspects, and applications with manufacturers.

PC Warehouse

1989-1992, Plaistow and Dover, NH

Attended manufacturers seminars and one-on-one training sessions for computer hardware and software.

New Hampshire Job Training Council Surveyor's Assistant Course

June 1987, Somersworth, NH

Core topics covered: Surveying techniques; Overview of boundary surveys, aerial surveying, and topographical mapping; Use of transit, theodolites, levels, and EDM (electronic distance meters); Collection of data using tape and other measurement devices; Techniques for recording of collected data.

Spaulding High School

Diploma

Rochester, New Hampshire, 1986

Last Revised: August 20, 2019