

**HUGH BORBIDGE, BSME**

Director of Engineering Animation

**EDUCATION:**

Villanova University, Villanova, PA

BS Mechanical Engineering/Concentration in Graphic Design, May 1991

**CONTINUING EDUCATION:**

PC-Crash Training Workshop, Las Vegas, NV, June 2007

Hexagon 2011 International Conference on Three-Dimensional Laser Scanning, Orlando, FL, June 2011

SPAR International 2013 Conference, Colorado Springs, CO, April 2013

PhotoModeler for Forensics Training, Aurora, Ontario, November 2013

**PROFESSIONAL MEMBERSHIPS:**

International Association of Forensic & Security Metrology

**CERTIFICATIONS:**

3ds Max 2012 Certified Associate

3ds Max 2012 Certified Professional Models to Motion

**SKILL SUMMARY:**

3D Studio Max, AutoCAD, Cyclone, PC Crash, PC Rect, Poser, Photoshop, Premiere, Photogrammetry

**EXPERIENCE:**

May 2007

**DJS Associates, Inc., Abington, PA,**

- Present

***Engineering Animation/High-Definition Surveying Specialist***

Accident Investigation with an emphasis on new technology, including state-of-the-art data collection techniques, analysis, three-dimensional modeling, animations and demonstrative evidence. Investigation and documentation of accident scenes and vehicles, including use of electronic site surveying equipment, laser scanning technology, digital photography and videography. Services are rendered on behalf of both plaintiff and defendant in civil and criminal matters. Services are rendered throughout the United States.

**2004 – 2007 Carroll Contractors/Carrollton Development Group, Haverford, PA**  
***Project Manager/Designer/3D Visual Specialist/Graphic Designer***  
Responsible for project schedule, budgets, subcontractor coordination and conflict resolution. Responsible for presenting conceptual rendered designs to prospective clients followed by complete documented construction documents.

**2000 – 2004 Macallister Group Architects, Plymouth Meeting, PA**  
***Designer/CAD Manager/3D Visual Specialist/Network Administration***  
Primary responsibilities were to assist in design and management of residential and commercial projects from schematic design through to construction documents. Initiated new production methodologies of design documents. Production of computer generated renderings, website design and maintenance, graphic design of literature and complete network administration.

**1994 – 2000 Timothy Haahs & Associates, Inc., Blue Bell, PA**  
***Designer/CAD Manager/3D Visual Specialist/Network Administrator***  
Brought forth improved AutoCAD methods, effectively enhancing production of construction documents. Responsible for company web page, company newsletters and marketing publications, 3D renderings/animations, and complete computer/network administration.

**1991 – 1994 Walker Parking Consultants, Conshohocken, PA**  
***Project Technician/Field Inspector***  
Responsible for production of 2D sections and plans. Performed structural field inspection, shop drawing coordination, and technical report writing.

#### **PRESENTATIONS:**

“Everyday Real World Uses of Raw Point Clouds in Forensic Engineering”, SPAR International 2013, Colorado Springs, CO, April 2013

“Economical and Efficient Use of Point Cloud Data: Real World Examples”, SPAR International 2013, Colorado Springs, CO, April 2013

“Application of High-Definition Survey (HDS) Laser Scanning in Homicide, Vehicular, Construction and Product Liability Forensic Investigations,” Hexagon International Conference, Orlando, FL, June 2011

“High-Definition Survey (HDS) Laser Scan Technology for Forensic Engineers,” SPAR 2009 National Conference, Denver, CO, March 2009

“High-Definition Surveying (HD) and Computer Animations for Accident Cases,” National Association of Subrogation Professionals, Blue Bell, PA, May 2008

“Forensic Uses for High-Definition Surveying (HDS),” International Association of Forensic & Security Metrology, Houston, TX, March 2008

“High-Definition Surveying (HDS)- Laser Scanning Technology for Scene Investigation, Reconstruction and Animation,” Pennsylvania County and State Detective’s Association, York, PA, January 2008