IKE DOSCH

Specialized Professional Competence

Forensic visualization and technical graphics. 3-Dimensional (3D) modeling, animation, lighting, and rendering. Laser scanning and structured light scanning. Photogrammetry, camera matching, and aerial photogrammetry. Metrology and high-precision 3D measurement. 3D analysis and reconstruction. Virtual reality (VR) development. Rapid prototyping and 3D printing (FDM and SLA). Production of demonstrative exhibits.

Background and Professional Honors

B.A. (Multimedia Arts and Animation), Art Institute of Phoenix

Forensic Visualization Technician,
Talas Engineering, Inc.
Metrology Coordinator & 3D Prototyping SME,
Doosan Bobcat, Inc., Bismarck, ND
Senior Multimedia Specialist,
Exponent, Inc., Phoenix, AZ
Multimedia Specialist,
Exponent, Inc., Phoenix, AZ

FAA Part 107 SUAS Remote Pilot #40177996

Professional Activities & Memberships

Member, American Society for Photogrammetry and Remote Sensing (ASPRS)
Member, Law Enforcement and Emergency Services Video Association International (LEVA)
Member, Society of Automotive Engineers (SAE International)

Training

FARO Focus Laser Scanner Training, FARO
Creaform Data Collection for Metrology and VXelements Training, GoEngineer
PolyWorks Inspector and Modeler Training, Innovmetric
Pix4D Photogrammetry and Aerial Mapping Essentials, Pix4D
Virtual Reality Development for Courtroom Demonstratives, Yulio Inc

Selected Publications and Presentations

"Perception of Terrain Slope in Real and Virtual Environments," Advances in Intelligent Systems and Computing, vol. 1206, Springer, 2021. Proceedings of the International Conference on Applied Human Factors and Ergonomics (AHFE) 2020 (with B. Lester, R. Larson, G. Fowler, and R. Rauschenberger).