Daniel Simacek

Senior Managing Forensic Animator / Senior Accident Reconstructionist

Department
Accident Reconstruction & Forensic Animation

Tel: (310) 618-8017
Email: daniel.simacek@yaeservices.com

Locations
Los Angeles, CA

Biography

Mr. Simacek joined YA Engineering Services in 2022, by way of Momentum Engineering Corp. starting in 2012. He has conducted over 350+ accident reconstructions, including vehicle inspections, site inspections, Leica laser surveys, and advanced computer simulations. Mr. Simacek has developed expertise in several cutting-edge reconstruction techniques, including 3D computer animations, the PC-Crash accident reconstruction program, and HDS laser surveys.

As a key member of our forensic engineering staff, Mr. Simacek is highly proficient in accident reconstruction and computer simulation. He conducts 3D laser scanning using our Leica ScanStation Laser surveying instrument and is an expert in using the Leica Cyclone and CloudWorks software. Additionally, he's an expert in sophisticated computer simulation and 3D animation software such as 3D Studio Max, PC Crash, and AutoCAD.

Mr. Simacek studied Mechanical Engineering and Computer Science at Prague Technical University. While there, he also trained staff members in system and network administration.

Professional Experience

- 2022 - Current | Senior Managing Forensic Animator / Senior Accident Reconstructionist | YA Engineering Services
- 2021 - 2022 | Senior Forensic Engineer / Senior Graphic Designer | Momentum Engineering Corporation
- 2007 - 2012 | Senior Forensic Engineer | Field and Test Engineering

Area of Practice

- Accident Reconstruction
- Graphics & Animation
- Litigation Support
- Motorcycle Accident Reconstruction

Publications and Presentations

- 2019 - Fatzinger, EC, Landerville JB, Bonsall JS, Simacek DS, “An Analysis of Sport Bike Motorcycle Dynamics during Front Wheel Over-Braking,”, SAE Publication 2019-01-0426.
- April 2020 - Siddiqui, O., Simacek, D., Hoang, R., Famiglietti, N. et al., “Characterizing Regenerative Coast-Down Deceleration in Tesla Model 3, S, and X,” SAE Technical Paper 2020-01-0883, 2020
- April 2021 - Daniel Simacek, Jose Tovar, Nicholas Famiglietti, Vladimir Shkolkin, Ryan Hoang “Stationary and Moving Camera Video Analysis Compared to Known Reference System.”, SAE Publication 2021-01-0879

Education

- Czech Technical University in Prague - Bachelor of Science - Computer Science & Mechanical Engineering - Prague

Training Courses

- Level 3: The Principles of Forensic Video/Image Compare and Contrast - LEVA - April - 2021
- Level 2: Digital Multimedia Evidence Processing - LEVA - August - 2019
- Level 1: Forensic Video Analysis & the Law - LEVA - June - 2019
- 2nd Quarter Training - CA2RS - June - 2019
- 1st Quarter Training - CA2RS - January - 2018
- Photogrammetry and Analysis of Digital Media - SAE - December - 2017
- Camera Tracking, and Multi-Channel Compositing - Pluralsight - March - 2016
- NUKE Depth Based Compositing - CG Spectrum - March - 2016
- Forensic Workshop - FARO Academy - November - 2016
- NUKE VFX Compositing Course - CG Spectrum - 2015, 2016
- PC-Crash Advanced Training Course - PC-Crash - Online - January - 2012
- PC-Crash Training Course - PC-Crash - Online - September - 2007