



**COLLISION
AND INJURY
DYNAMICS**

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SEAN G. SNYDER, BSPhy

ssnyder@ci-dynamics.com

Education and Certification

Bachelor of Science, Honors in Physics

- California State University, Northridge, 2016
- Cum Laude

FARO Focus 3D Scanner Certification

- 2018

Training

Collision Safety Institute

- CDR Technician Course; 2017

Engineering Dynamics Corporation

- HVE Forum; 2018

FARO

- FARO Laser Scanner; 2017

LEVA

- Level 1: Forensic Video Analysis & the Law; 2019

MEA Forensic

- PC-Crash Looking at the Results; 2017
- PC-Crash Vehicle Control; 2017
- PC-Crash Collisions; 2017

Society of Automotive Engineers

- Accident Reconstruction, The Autonomous Vehicle and ADAS; 2020
- Applying Automotive EDR Data to Traffic Crash Reconstruction; 2020
- Fundamentals of Vehicle Dynamics; 2019
- Vehicle Crash Reconstruction: Principles and Technology; 2018

Professional Experience

2016 – Present

Collision and Injury Dynamics, Inc. (Staff Engineer)

Supports analysis, reconstruction, and presentation of results of vehicular accident cases. Assist Senior Consultants in conduction vehicle and scene inspections, documentation, and analysis of forensic data from accident vehicles and accident scene, involving laser total station and 3D scanning operations, and computer simulation and trial preparation.

2015 – 2016

CSUN Department of Physics and Astronomy (Research Assistant)



Assisted Dr. Wladimir Lyra in using computational methods to simulate the formation of planets via hydrodynamic instabilities.

2015

CSUN Department of Physics and Astronomy (Research Assistant)

Assisted Dr. Li Gao in a scanning tunneling microscope laboratory studying the interactions between water and a titanium dioxide surface.

Presentations

American Academy of Forensic Sciences

- Body-Mounted Camera Motion Analysis – Accuracy and Validation of 3D Camera Match Solutions: by Michael Callahan, Brady Held, and Sean Snyder; 2020

Crash Testing

SATAI

- Glendale Regional Public Safety Training Center, Phoenix, AZ; 2019

Organizations

Society of Automotive Engineers (SAE)

Law Enforcement and Emergency Services Video Association International, Inc. (LEVA)

Biographical Sketch

Mr. Snyder was born in Canoga Park, CA in 1987. He grew up in the city of Santa Clarita and spent his youth focused on his education, sports, and spending time with his family and friends. Upon completion of high school, Mr. Snyder worked in construction for several years. Mr. Snyder's longtime passion for science and mathematics drove him to go back to school and pursue a degree in physics, ultimately leading him to California State University, Northridge. While at CSUN, he focused on condensed matter physics and astrophysics and served as research assistants to Dr. Gao and Dr. Wladimir Lyra. He earned his B.S. Honors in Physics from California State University, Northridge in 2016.

Upon completion of his BS in Physics, Mr. Snyder began working for Collison and Injury Dynamics, Inc. He was hired to help support the consultants at the firm on inspections, site drawings, and analysis. As Mr. Snyder grew with the company, so did his responsibilities. Mr. Snyder continues to increase his knowledge in the field of accident reconstruction and now takes on more challenging analysis, leads inspections, and communicates results with clients. Mr. Snyder is extremely passionate about video analysis and continues to pursue further research and education on the topic.

Outside the office, Mr. Snyder spends most of his time with his son, wife, and family. Mr. Snyder is the proud father of a six-year-old boy and loves to spend time with him whenever he can. Mr. Snyder enjoys reading, watching movies, and playing video games when he is not working. Mr. Snyder also enjoys outdoor activities such as camping, hiking, fishing, bicycling, and running.

Effective January 2021

