



Arjun Padmanabhan

BSAE, MSAE

Senior Accident Reconstructionist

Department

Accident Reconstruction & Forensic Animation

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Locations

Sacramento, CA
San Francisco, CA

Biography

Mr. Padmanabhan joined YA Engineering Services in 2023. Before joining the firm, he worked in the accident reconstruction field for Momentum Engineering Corp. from 2017 to 2023. He has investigated over 500 accident cases while assisting with on-site vehicle inspection, photography, and documentation. Mr. Padmanabhan has received intensive training in accident reconstruction, 3D laser scanning, computer simulations (PC-Crash, HVE, Virtual Crash), crash data retrieval (CDR/EDR), and photogrammetry. He received a Master of Science (M.S.) in Automotive Engineering focusing on vehicle engineering from Lawrence Technological University 2017. He also received a Bachelor of Science in Automobile Engineering from India in 2011.

Credentials

- BSAE | Bachelor of Science, Automobile Engineering
- MSAE | Master of Science, Automobile Engineering
- FAA Certified Drone Pilot
- SAE Accident Reconstruction
- SAE Vehicle Crash Reconstruction: Principles and Technology - 2018
- SAE Applying Automotive EDR Data to Traffic Crash Reconstruction - 2019
- SAE Fundamentals of Vehicle Dynamics - 2019
- SAE Fundamentals of Automotive All Wheel Drive - 2019
- SAE Driver Distraction from Electronic Devices - Insight and Implications - 2020
- SAE Introduction to Brake Control Systems ABS, TCS, ESC - 2020
- SAE Accessing and Interpreting Heavy vehicle Event Data Recorders - 2022

Professional Experience

- 2023 - Current | Senior Forensic Engineer | YA Engineering Services
- 2017 - 2023 | Senior Forensic Engineer | Momentum Engineering Corp.
- 2011 - 2014 | Crash Investigator & Technical Manager | JP Research India

Area of Practice

- Accident Reconstruction
- Heavy Trucking

Publications and Presentations

- 2014 - Padmanabhan, A., Berlin, Germany, "In-Depth study on Motorized Two-Wheeler Accidents in India", International Research Council on Biomechanics of Injury (IRCOBI)

Education

- Lawrence Technological University - Master of Science - Automobile Engineering - Southfield - Michigan
- PSG College of Technology - Bachelor of Science - Automobile Engineering -

Coimbatore - India

- PSG College of Technology - Diploma - Automobile Engineering - Coimbatore - India
- SAE - Accessing and Interpreting Heavy vehicle Event Data Recorders - 2022
- EDC HVE Forum Workshop - 2021
- NAPARS - Investigating Rollover Crashes & GoPro GPS Data Analysis - 2020
- SAE - Introduction to Brake Control Systems ABS, TCS, ESC - 2020
- SAE - Driver Distraction from Electronic Devices - Insight and Implications - 2020
- SAE - Fundamentals of Automotive All Wheel Drive - 2019
- SAE - Fundamentals of Vehicle Dynamics - 2019
- SAE - Applying Automotive EDR Data to Traffic Crash Reconstruction - 2019
- California Association of Accident Reconstruction Specialist (CA2RS) - Fall Conference - 2019
- Collision Safety Institute (CSI) - BOSCH CDR Tool Training
- SAE - PC-Crash Training Workshop - MEA Forensic Vehicle Crash Reconstruction: Principles and Technology - 2018

Affiliations

- Society of Automotive Engineers (SAE)
 - California Association of Accident Reconstruction Specialist (CA2RS)
 - American Society of Mechanical Engineering (ASME)
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