



## Arjun Padmanabhan

BSAE, MSAE

### Senior Forensic Engineer

Department  
Engineering

Tel: (310) 618-8017

Email: arjun.padmanabhan@yaeservices.com

#### 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.

## Education

- Lawrence Technological University | Southfield, Michigan  
Master of Science - Automobile Engineering
- PSG College of Technology | Coimbatore, India  
Bachelor of Science - Automobile Engineering
- PSG College of Technology | Coimbatore, India  
Diploma - Automobile Engineering
- 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

## 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

## Areas of Practice

- Accident Reconstruction
- Heavy Trucking

## Affiliations

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

## 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

## Publications and Presentations

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