



## Chris Phan

### Forensic Engineer

**Department**  
Engineering

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**Locations**  
Los Angeles, CA

## Biography

Mr. Phan joined Momentum Engineering Corp. in 2018 as an intern researching airbag deployment thresholds. After completing his graduate program in 2019, he was hired as a Forensic Engineer to apply his knowledge to accident reconstruction. Since joining, he has received extensive training in site and vehicle inspections utilizing 3D laser scanning, photography, and collision simulation using PC-Crash software. Mr. Phan earned a Master of Science in Mechanical Engineering focusing on mechanical design from California State University, Fullerton, in 2019. His graduate project thesis focused on improving crash safety structures in passenger vehicles. Through his research at CSUF, he gained extensive knowledge of NHTSA and IIHS crash tests and standards, modern vehicle safety features, and experience of finite element analysis to simulate crashes.

## Education

- California State University | Fullerton, California  
Master of Science - Mechanical Engineering
- University of California | Irvine, California  
Bachelor of Science - Public Health Sciences
- October 2022  
FAA – Small UAS Part 107 Remote Pilot Certification
- September 2022  
SAE – Photogrammetry and Analysis of Digital Media
- May 2022  
CA2RS – Understanding and Using Ignition Cycles in your Investigations
- May 2022  
SAE – Vehicle Crash Reconstruction: Principles and Technology
- March 2022  
CA2RS – Using Activity App GPS Data in Accident Reconstruction
- March 2022  
Crash Safety Solutions, Interactive Driver Response Research User Forum
- February 2022  
SATAI, Spring Conference
- July 2021  
CA2RS – A Case Study - Utilizing a Single Photo to Reconstruct a Crash Sequence
- February 2020  
SAE – Photography for Accident Reconstruction, Product Liability and Testing
- January 2020  
SAE – Fundamentals of Vehicle Dynamics
- December 2019  
SAE – Applying Automotive EDR Data to Traffic Crash Reconstruction
- June 2019  
Collision Safety Institute – (CDR) Technician Course

## Professional Experience

- 2023 - Current | Forensic Engineer | YA Engineering Services
- 2019 - 2023 | Forensic Engineer | Momentum Engineering Corp.

## Publications and Presentations

- Electric Motorcycle Acceleration, Braking, and Regenerative Coast-Down Deceleration Testing and Analysis, SAE, 2023-01-0631