

Curriculum Vitae for Christian Meza

Education

- Bachelor of Science in Mechanical Engineering, The University of Texas at Austin, 2021.

Specialized Professional Competencies

- Motor vehicle crash investigation, reconstruction, and failure analysis to determine causes, conditions, and circumstances.
- Filtration and processing of high-frequency vehicle sensor and CAN data to support diagnostics, performance optimization, and crash reconstruction analyses.
- Reverse engineering of vehicle control modules to access and interpret vehicle data.

Professional Experience and Qualifications

- Senior Engineer, Carr Engineering, Inc., 2025-Present
 - Responsible for motor vehicle crash reconstruction analyses, performing vehicle and scene inspections, and the retrieval and interpretation of Event Data Recorder (EDR) data.
- Performance Engineer, Peitz Performance Tunes, LLC., 2023-2025
 - Provided custom tuning solutions through reverse engineering of Engine Control Modules (ECM) and Transmission Control Modules (TCM) for high-performance applications.
 - Designed and built electronic control assemblies to support turbocharging systems, secondary fuel injection, and advanced powertrain modifications.
- Transmission Validation Engineer, PACCAR, Inc., 2022-2023
 - Executed validation protocols for heavy-duty transmissions under various load and drive cycles.
- Rapid Mileage Accumulation Validation Engineer, PACCAR, Inc., 2021-2022
 - Managed accelerated mileage accumulation testing to validate long-term reliability of powertrain and vehicle systems under controlled operating conditions.

Training and Professional Development

- HP Academy – Motorsport Wiring, 2024
- HP Academy – EFI Tuning, 2024
- The University of Texas at Austin – Data Science & Data Management Systems, 2022
- The University of Texas at Austin – Elements of Computing, 2021
- Member – SAE International