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## **EDUCATION**

1987                      **Bachelor of Science in Mechanical Engineering**  
Michigan State University, East Lansing, Michigan

## **EXPERIENCE**

March 2025  
to Present                      **Engineering Design & Testing Corp.**  
**Concord, California**  
*Mechanical and Accident Reconstruction Engineer*  
Consulting in the Trucking and Transportation Industry, completing investigations, analysis and reconstruction of motor vehicle accidents involving passenger vehicles, truck tractors, trailers and motorcycles. Experience in event data recorder downloads and analyses involving passenger vehicles and truck tractors.

July 2007  
to March 2025                      **Rimkus Consulting Group**  
**Irvine, California**  
*Principal Consultant*  
Provided consulting services for legal, insurance, and corporate clients that include vehicle accident reconstruction and mechanical component failure analysis. Additionally, provided failure analysis of plumbing components.

December 2005  
to July 2007                      **Wahlco Inc.**  
**Santa Ana, California**  
*Senior Mechanical Engineer*  
Perform engineering design of air pollution control equipment which involved heat exchangers, blowers, pumps and other mechanical equipment. Engineering tasks involved sizing equipment, valves and pumps based on heat and mass balance calculations.

July 2002 to  
December 2005                      **Fleetwood Enterprises**  
**Riverside, California**  
*Senior Mechanical Engineer – Recreational Vehicle Division*  
Perform engineering evaluations related to the product development of recreational vehicles. Evaluations included but not limited to motor home hull construction, chassis and plumbing systems.  
  
*Mechanical Engineer – Manufactured Housing Division*  
Perform material evaluations, product design testing, plumbing system evaluations and HVAC designs based on heat loss and heat gain calculations.

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- July 2001 to  
July 2002      **Desert Water Agency**  
                  **Palm Springs, California**
- Engineer*  
Perform engineering analysis to facilitate pipeline design, network system layout, and size fluid delivery pumps and storage tanks accordingly.
- July 1999 to  
July 2001      **Daimler Chrysler Corp.**  
                  **Auburn Hills, Michigan**
- Tool and Process Engineer – Advanced Manufacturing Engineering – Transmissions*  
Perform development and production launch of manufacturing equipment and processes for Chrysler vehicles at the Kokomo, Indiana transmission plant. Investigated and identified the state-of-the-art CNC metal-cutting machinery and procured the best-fit process machines. Qualified and integrated the machines into an automated production system utilizing Six Sigma Statistical process control and production part approval process.
- July 1989 to  
July 1999      **Fleetwood Enterprises**  
                  **Riverside, California**
- Engineer – Recreation Vehicle Division*
- Responsibilities included project development leader of a new recreational vehicle hull structure (sidewalls, floor, ceiling, etc.) and manufacturing processes. Project involved the evaluation and approval of composite hull materials according to developed test procedures and analysis. Thoroughly revised the hull manufacturing process by the research, development, and implementation of select manufacturing equipment. Published a manufacturing process manual which was used throughout eight manufacturing facilities. Additional responsibilities included establishing and developing test procedures, which directed Engineering technicians. Consulted on a variety of areas including manufacturing, product development, purchasing, service centers and suppliers.

## **REGISTRATIONS and CERTIFICATIONS**

- Registered Professional Engineer in California (#32220)  
Registered Professional Engineer in Nevada (#020153)  
Registered Professional Engineer in Arizona (#52972)  
Registered Professional Engineer in Washington (#49824)  
Registered Professional Engineer in Hawaii (#14919)  
National Council of Examiners for Engineers and Surveying Record (#33037)  
Accreditation Commission for Traffic Accident Reconstruction (ACTAR #1914)

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**CONTINUING EDUCATION**

2006	Heating, Ventilating and Air-Conditioning System Design Certification - ASME
2007	Traffic Accident Investigation - Northwestern University
2007	Traffic Accident Reconstruction - Northwestern University
2011	Bosch Crash Data Retrieval Technician Course
2012	Inspection and Investigation of Commercial Crashes
2013	Vehicle Accident Software Simulation
2016	Energy Methods and Damage Analysis in Traffic Crash Reconstruction
2018	Human Factors in Traffic Crash Reconstruction
2020	Heavy Vehicle Electronic Control Module Data Use in Crash Reconstruction