

JEFFREY P. KRUMMEN

MV ENGINEERING COMPANY
3666 PAXTON ROAD
CINCINNATI, OH 45208
(513)-321-6889 or 1-(800)-227-6833

EMPLOYMENT HISTORY

- 1999 to Present** **Project Engineer**, *MV Engineering Company*, Cincinnati, OH.
Directed forensic engineering analyses of motor vehicle related incidents, including traffic accident reconstruction, vehicle defect analyses and vehicle fires.
- 1997 to 1999** **Graduate Student**, *Structural Dynamics Research Lab (SDRL)*, *University of Cincinnati*, Cincinnati, Ohio.
Performed modal analysis on machine tool holders. Designed and developed a modular, multi-port fuel injection system for internal combustion engines using a micro-controller.
- 1996 to 1997** **Formula SAE (Society of Automotive Engineers)**, *University of Cincinnati*, Cincinnati, Ohio.
Implemented a prototype fuel injection system and components on a 600cc four cylinder motorcycle engine. Responsible for drafting, layout, welding and final machining of intake manifold and throttle body assembly.
- 1997** **Technical Assistant**, *Collins Electric*, Mason, Ohio.
Assisted in removal and installation of standby generators. Designed and installed fuel supply systems, intake make-up air and radiator exhaust air shroud systems pertaining to diesel generating electrical systems. Performed electrical trouble shooting of regulatory circuits.
- 1995 to 1996** **Mechanical Engineer**, *Roush Anatrol*, Cincinnati, Ohio.
Performed modal analysis on various prototype powertrains. Assisted in the construction of an automatic climate controlled brake dynamometer chamber. Diagnosed and solved vehicle brake noise problems by performing modal analysis and utilizing tuned dampers. Operated and maintained engine dynamometer in semi anechoic test cell. Installed Data Acquisition Systems with complete wiring for two semi-anechoic test cells. Instrumented prototype powertrains for noise and vibration measurements utilizing accelerometers, microphones and proximity probes. Responsible for calibrating testing equipment.
- 1994** **Mechanical Engineer**, *Cincinnati Gas and Electric*, Cincinnati, Ohio.
Integral team member of eleven man maintenance crew specializing in valves, pipes, bearings, pumps and motors. Rebuilt two gear reduction boxes for driving pug mills. Supervised and directed contractors working on blowers, mills and storage tanks.

EDUCATION

- 1999** **Master of Science in Mechanical Engineering**, *University of Cincinnati*, Cincinnati, OH
- 1997** **Bachelor of Science in Mechanical Engineering**, *University of Cincinnati*, Cincinnati, OH

PERTINENT CONTINUING EDUCATION

- 1999** **Traffic Accident Reconstruction**, *Northwestern University*, Evanston, IL.
- 2000** **Investigation of Vehicle Fires**, *Lee Cole and Associates*, Tahoe, CA.
- 2001** **Braking Performance of Heavy Commercial Vehicles**, *SAE*, Troy, MI.
- 2003** **Human Factors for Drivers and Pedestrians**, *Accident Dynamics*, West Chester, OH.
- 2005** **Hydraulic Brake Systems for Passenger Cars and Light Trucks**, *SAE*, Troy, MI.
- 1999-2005** **Accident Reconstruction Presentations**, *SAE Annual Congress*, Detroit, MI.

Professional Affiliations

- Society of Automotive Engineers (SAE)
- National Society of Professional Engineers (NSPE)

Registered Professional Engineer in Ohio