

Gene Liao, Ph.D.

Research Areas

- Hybrid Electric Vehicle (HEV)
 - HEV/EV modeling, simulation, and optimization of hybrid powertrain configurations and component sizing.
 - Install/convert utility van to series HEV: Cooperative Research and Development Agreements (CRADA) with TARDEC
 - Fuel efficiency improvement on Light Medium-Duty Tactical Vehicle (LMTV)
- Hybrid Vehicles Education and Training
- Center for Advanced Automotive Technology - HEV/PHEV/EV, AFV, FCV
- Flexible multibody dynamics-based model for compliant sheet-metal handling in transfer press system
- Driveability/driveline dynamics of conventional and hybrid electric vehicle



Biography

Dr. Liao's teaching and research interests are in the areas of Mechanical Design, Multi-body Dynamics, Hybrid Vehicle Powertrain, and CAE applications in products development and manufacturing. He has over 15 years of industrial practice in the automotive sector prior to becoming a faculty member.

Education

- Doctor of Engineering, University of Michigan, Ann Arbor, MI.
- Mechanical Engineer (Professional Degree), Columbia University, New York, NY.
- M.S., Mechanical Engineering, University of Texas at Arlington, Arlington, TX.
- B.S., Mechanical Engineering, National Central University, Taiwan.