



32100 Dobbin Huffsmith Road Magnolia, Texas 77354
Phone: (281)-363-0888 Fax: (281)-363-0821

Jonathan Clayton Coleman, P.E.

Specialized Professional Competence

- Mechanical Engineer with Automotive Engineering and Vehicle Design concentrations
- Over 11 years of experience with automotive, heavy truck, motorcycle, ATV and UTV failure mode analysis, vehicle dynamics testing and accident reconstruction
- Strong knowledge of computer based engineering and simulation processes allowing expeditious evaluation and optimization of increasingly complex modern systems and components
- Electronics knowledge of mechatronics, microcontroller programming, sensor specification, calibration and wiring harness design/fabrication
- Strong communication skills to effectively communicate technical information via reporting, presentation, visual exhibits and animations
- Application of 3D laser scanning techniques and software for traffic accident reconstruction and forensic investigations
- Practical hands-on experience with amateur racing, inventing, design and fabrication as hobbies since childhood

Professional Qualifications

- Graduate Engineer, 2006 to Present
Tandy Engineering and Associates, Inc.
- Texas PE# 128778, Oct 2017
 - 93% exam score earning name on Testmaster honor roll
- Bosch CDR Technician Level 1 and 2, April 2014
- EPA Section 608 HVAC Technician Certification, March 2012
- Northwestern University Traffic Crash Reconstruction Level II Certification, October 24-28, 2011
- Bachelor of Science, Mechanical Engineering, Auburn University, 2006
- Certificate in Automotive Engineering, Auburn University, 2006
Courses included: Vehicle Design, Engine Design and Vehicle Dynamics
- Harley Davidson, Talladega Test Facility, Mechanical Engineering Co-Op, 2003 to 2004
Instrumentation, calibration and homologation of production and prototype motorcycles
Developed synchronized and multiplexed micro video camera system for special test group
Designed V-box GPS mapping scripts, Edaq custom digital filters, and lean angle test fixtures
- Auburn University Formula S.A.E. 2003 to 2006
Team Captain, 2006
Brakes Section Leader, 2006
Electronics Section Leader, 2005 and 2006
Fuel Injection Calibration Leader, 2005 and 2006
Pneumatic Shifting and Traction Control Leader, 2005 and 2006



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- Claude Rouelle 3-day Vehicle Dynamics Seminar, Detroit, MI 2005
- Skip Barber 3-day Advanced Racing School and Competition License, Monterey, CA 2005

Honors and Awards

- 2014 SAE Arch T. Colwell Merit Award for SAE Paper 2013-01-0701, "An Objective Analysis of the Effect of Tire Tread Depth on Crash Causation and Wet Road Vehicle Dynamics"
- 2006 FSAE West: 6th Place Overall, 2nd Place Design
- 2006 Continental Teves Brake Design Competition: 2nd Place
- 2006 Society of Automotive Engineers: Outstanding Student Officer
- 2005 SCCA Solo2 Nationals: 4th Place
- 2002 AMA Hare Scramble (250b class): 2nd Place
- 2002 CACC Physics Department: Most Likely to Succeed
- 2000 Valedictorian

Memberships

- Society of Automotive Engineers
- Sports Car Club of America (SCCA)
- American Motorcycle Association (AMA)
- Cupola Engineering Society
- Golden Key
- Tou Sigma

Publications

SAE Paper 2016-01-1635, "An Analysis of Recreational Off Road Vehicle Tire Performance Characteristics" Authors: D. F. Tandy, Jung Bae, J. Colborn, **C. Coleman**

SAE Paper 2015-01-1416, "Applying Camera Matching Methods to Laser Scanned Three Dimensional Scene Data with Comparisons to Other Methods" Authors: **C. Coleman**, D. F. Tandy, J. Colbourn, N. Ault

SAE Paper 2013-01-0701, "An Objective Analysis of the Effect of Tire Tread Depth on Crash Causation and Wet Road Vehicle Dynamics"; Authors: D. F. Tandy, **C. Coleman**, R. Ray

SAE Paper 2012-01-0617, "Benefits and Methodology for Dimensioning a Vehicle Using a 3D Scanner for Accident Reconstruction Purposes"; Authors: D. F. Tandy, **C. Coleman**, J. Colborn, T. Hoover, Jung Bae

SAE Paper 2011-01-0973, "Steering and Handling Performance During a Full Tire Tread Belt Separation"; Authors: D. F. Tandy, Jr., R. Pascarella, B. N. Ault, **C. Coleman**, K. Tandy