



Ken Archibald
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Education:

1973-1978 Bachelor of Science Degree in Engineering in Mechanics and Materials from Southern Illinois University

- Continuing Education in Business Management and Continuum Mechanics

Career History:

1970-1972 US Army, Sergeant in 2 years

1978-1983 Firestone Wheel Products
Agricultural Wheel Engineer: designed agricultural, off-road, and semi-truck wheels.

1983-1989 Kelsey-Hayes Wheels Co.
Wheel Product Engineer Manager, Steel Wheels

1989-1996 Hayes Wheels Co.
Director of Aluminum Wheel Engineering

1996-Present Independent Test Services, Owner/Operator
A wheel structural fatigue business; passenger car and light truck wheel testing of wheel: structures, fastening systems, and environmental effects. See www.wheeltest.com for details.

Professional Associations:

1983- Present Volunteer Member and Participant of Society of Automotive Engineers International (SAE). SAE is a global association of more than 128,000 engineers and related technical experts in the aerospace, automotive, and commercial-vehicle industries. SAE's core competencies are life-long learning and voluntary consensus standards development.



History of Voluntary Participation with Society of Automotive Engineers International (SAE):

SAE Wheel Standards Committee	Participation	History of Membership	Years of Involvement
J175 Lateral Impact	Sponsor- Member	1995-Present	20+ years
J1204 Rec and Ult Trailer	Sponsor- Member	2012-Present	3 years
J328 Pass Car & Lt truck Perf	Sponsor- Member	1986-Present	29 years
J2530 Aftermarket wheels	Member	2004-Present	10+ years
J3010 Registration and Conformity	Member	2014-Present	2 years
J2315 Nut Seat Strength	Sponsor- Member	1998-Present	15+ years
J2316 Nut Seat system TvT	Sponsor- Member	1998-Present	15+ years
J1981 Road Hazard Impact	Member	1994-Present	20+ years
J1986 Balance Weights	Member	1996-Present	20 years
J 2562 Biaxial Fatigue	Member	1997-Present	15+ years

Professional Accomplishments:

- Wheel Patents:
 - Full Face Wheel Assembly -5,360,261 (May 31, 1991)
 - Method of Manufacturing a Full Face Wheel Assembly -5,548,896 (Jan. 7, 1994)
 - Bimetal Full Face Wheel – 5,421,642 (Jan 27, 1994)
 - Vehicle Wheel having a Tinnerman Nut Clearance Groove -5,490,720 (Jan 27, 1994)
 - Balancing Weight Attachment System for a vehicle wheel -5,564,792 (Aug 8, 1995)

Publications:

Archibald, K., Schnaidt, W., Wallace, R., and Archibald, K., "Minimum Cycle Requirement for SAE J2562," SAE Technical Paper 2014-01-0073, 2014, doi:10.4271/2014-01-0073.

Archibald, K., Lee, W., Rotundo, R., Melara, M. et al., "Development of a Biaxial Fatigue Load File to Emulate the Services Demanded of a Motor Sport Vehicle," SAE Technical Paper 2012-01-0798, 2012, doi:10.4271/2012-01-0798

Archibald, K., Lee, W., and Brest, M., "J328 6061-T6 Load Factor Evaluation," SAE Technical Paper 2012-01-0793, 2012, doi:10.4271/2012-01-0793.

Archibald, K., Archibald, K., and Neubauer, D., "Rationale and Methodology for Straightening A356-T6 Wheels," SAE Technical Paper 2016-01-1573, 2016, doi: 10.4271/2016-01-1573



Expert Witness Experience:

- **2005:** Testified in a 'wheel off' case in Lansing, Michigan. Determined cause of accident, contrary to previous investigations belief.
- **2008:** Developed methodology to test wheel fasteners in lawsuit to confirm that if lug nuts were torqued to 25 ft-lbs minimum, a "wheel-off" accident could have been eliminated.
- **2009:** Testified at World Trade Organization in lawsuit held in Geneva, Switzerland between a Russian Wheel Manufacturer and a Spanish Machine maker. Tribunal voted in favor of my client.
- **2012: Faulkner V Starcraft** Retained to determine if wheel distorted prior to accident.
- **2014: Luppino, et al. v. MBUSA, Civil Action No. 09-cv-5582 (JLL) (JAD)** Retained to understand wheel flange damage
- **2016: Masud v. ITW State v. Green Case** Retained to determine effect of putting Permatex anti-seize on studs of 1997 Dodge 3500 front extender separation.