Joey K. Parker, Ph.D., P.E.

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EDUCATION

1985	Doctor of Philosophy in Engineering, Clemson University
1981	Master of Engineering in Mechanical Engineering, Clemson University
1978	Bachelor of Science in Mechanical Engineering, Tennessee Technological
	University

REGISTRATION

2004 to	Professional Engineer, Alabama, #26337
2017	_

ACADEMIC EXPERIENCE

1985 to 2011	The University of Alabama, College of Engineering Associate Professor of Mechanical Engineering, 1991 Assistant Professor of Mechanical Engineering, 1985
1981 to 1985	Clemson University, College of Engineering Visiting Instructor, Department of Mechanical Engineering, 1983 Graduate Teaching Assistant, Department of Mechanical Engineering, 1981

INDUSTRIAL EXPERIENCE

1987 to 2002	CCSports Associates, New Haven, CT Technical Consultant. Designed and developed microcontroller based system for a low-cost graphics video overlay system ("The Coach's Pad") used by professional, college, and high school athletic coaching staffs.
1978 to 1981	Badische Corporation, Anderson SC (now Fibers Division of BASF) Mechanical Engineer, Research and Development Department. Designed, installed, and tested components for a state-of-the-art, highly automated process for the manufacture of nylon carpet yarn

SUMMER EXPERIENCE

N	MER EXPERIENCE	
		NASA-ASEE Summer Faculty Fellowship, Marshall Space Flight Center,
		Huntsville, AL
	1993	Developed simulation model and debugged control system for a brushless
		DC motor controller for propellant control valve application.
	1986 and	Developed computer vision software for the Mechanics of Granular
	1987	Materials Experiment.

PROFESSIONAL DEVELOPMENT COURSES TAKEN

OFESSIONA	LE DE VELOT MENT COURSES TAKEN
2017	Human Factors in Traffic Crashes: Pelham AL, November 13-17
2015	HVE Forum (EDSMAC4, SIMON), Engineering Dynamics Corp., Austin,
	TX, Mar 2-6.
2013	Advanced Crash Reconstruction Utilizing Human Factors, Northwestern
	University Center for Public Safety, Evanston, IL, May 20-24.
2012	Crash Data Retrieval Analysis Course with Advanced Analysis Using the
	Bosch Crash Data Retrieval System, CDR Trainers, Hattiesburg, MS,
	Dec. 4-7.
2011	Accessing and Interpreting Heavy Vehicle Event Data Recorders, SAE
	International, Chatlotte, NC, May 17-20.
2009	Investigation of Motorcycle Crashes, Institute of Police Technology and
	Management (IPTM), Tampa, FL, Aug. 10-14.
2008	CDR (Crash Data Retrieval) Data Analyst Certification, Collision Safety
	Institute, New Orleans, LA, June 24-27.
2008	Human Factors In Traffic Crash Reconstruction, Institute of Police
	Technology and Management (IPTM), Jacksonville, FL, June 9-13.
2007	Motorcycle Safety Foundation Rider Course, University of Montevallo,
	Montevallo, AL, Nov. 2-4.
2007	Highway Event Data Recorder Symposium: 2007 Update, SAE International,
	Ashburn, VA, Sept. 5-6.
2007	Commercial Vehicle Braking Systems e-Seminar, SAE International, June-
	July.
2006	Caterpillar – Electronic Technician for On-Highway Trucks Customer Class
	Thompson Tractor Co., Birmingham, AL, Aug. 9.
2006	HVE Forum (SIMON), Engineering Dynamics Corp., Phoenix, AZ, Feb. 20-
2006	22.
2006	EDCRASH Reconstruction, Engineering Dynamics Corp., Northside, CA, Jan.
2002	16-20.
2003	Air Brake Systems Product School, Bendix, Elyria, OH, Nov. 3-6.
2003	Vehicle Dynamics for Passenger Cars and Light Trucks, SAE International,
2002	Troy, MI, Sept. 17-19.
2003	Police Traffic Accident Investigation 19 Update, Crash Data Retrieval
	Training and Crash Data Retrieval Update Training, Michigan State
2002	University Highway Traffic Safety Program, Mar. 10-12.
2002	Collision Reconstruction, Texas Engineering Extension Service, Plano TX,
	July 22-Aug. 2.

PROFESSIONAL DEVELOPMENT COURSES & SEMINARS TAUGHT

2016	CDR System Operators Course - Bosch Crash Data Retrieval System,
	Montgomery Police Department, Montgomery, AL, May 25 (with J. Hunter).
2015	Accident Reconstruction - Your Questions Answered, The Bootcamp for
	Litigating an Automobile Accident Case, The University of Alabama School
	of Law, Tuscaloosa, AL, Sept. 25.
2015	Traffic Accident Reconstruction - What Happened?, Alabama Criminal
	Defense Lawyers Association DUI/Traffic Homicide Seminar, Montgomery,
	AL, Aug. 7.

PROFESSIONAL DEVELOPMENT COURSES & SEMINARS TAUGHT (Cont'd)

Accident Investigation - What You Can Do to Help Determine What Happened?, Second Annual Transportation Safety Summit, Chattanooga, TN, May 14.
 Protecting EDR Information, ABA Tort Trial & Insurance Practice Section, TIPS Fall Leadership Meeting, Minneapolis, MN, Oct. 9.
 On Scene Accident Investigation – What You Need to Document, 13th Annual Conference Public Employees Safety Council of Alabama, Clanton, AL, Nov. 14 (with J. Hunter)
 Heavy Vehicle Event Data Recorders - HVEDR, Ontario Provincial Police, Toronto, ON, Mar. 19-22 (with A. Powers).

ACADEMIC COURSES TAUGHT

AEM 264	Dynamics
GES 131	Foundations of Engineering I
GES 132	Foundations of Engineering II
ME 110	Intro to Mechanical Engineering
ME 349	Numerical Methods
ME 360	Instrumentation & Control Comp.
ME 363	Dynamics of Machinery
ME 372	Dynamic Systems
ME 460	Advanced Instrumentation
ME 464	Mechanization of Automation
ME 465/565	Introduction to Automated Manufacturing Systems
ME 467	Robotics and Control Hardware
ME 475	Control Systems Anaylsis
ME 489	Mechanical Engineering Design I
ME 490	Mechanical Engineering Design II
ME 491/591	Vehicle Dynamics
ME 577	Advanced Linear Control

PATENTS

4,783,107	Method and Apparatus for Controlling Impact Force During Rapid Robotic
	Acquisition of Object, November 8, 1988 (with Frank W. Paul).
4,715,773	Method and Apparatus for Repositioning a Mislocated Object with a Robot
	Hand, December 29, 1987 (with Frank W. Paul).

PROFESSIONAL AND HONOR SOCIETIES

American Society of Mechanical Engineers Society of Automotive Engineers Pi Tau Sigma and Tau Beta Pi (honorary engineering societies)