

RALPH V. WILHELM, JR.
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EXPERIENCE

- 2001-Present **WILHELM ASSOCIATES, LLC** (WWW.WILHELMASSOC.COM) Carmel, IN
President and Founder
- Consulting firm concentrating in auto electronics, telematics, active safety systems, electric vehicle products, product/market & international business strategies
 - Developing and using methodologies for market assessment, requirements definition, product design, strategy, and implementation
 - Firm works with four part-time highly experienced Senior Associates plus we partner with other individuals to complement our offerings as needed
 - Focus is on emerging & established automotive suppliers plus expert witness support for intellectual property litigation
 - Diverse client base currently: Asian, European, & North American
 - Range of clients: aftermarket, OEM Tier Ones, large law firms, entrepreneurial start-ups, privately-held & publicly-traded companies, service providers, and hardware/systems/software providers
- 1997-2001 **DELPHI DELCO ELECTRONICS CORPORATION,** Kokomo, IN
Product Line Manager, Mobile Multi Media for North America
- Reported to General Director of Mobile Multi Media
 - Responsible for all deliverables including technology planning, product design, manufacturing, sales, and product strategies to ensure on-time delivery of products within budget
 - Won \$2.2 Billion revenue of new business over 18 months, across three major product lines, and five separate OEM's. Customers are headquartered in Japan, Europe, and North America
 - Actual revenue over \$320 Million in CY2000.
 - Typical programs are on a commercial-type cycle time of 6 to 15 months, specification to SOP (start of production) with automotive high quality
- 1994-1997 **DELCO ELECTRONICS CORP.,** Hughes Electronics Co., Singapore
Vice President of Engineering, Delco Electronics Asia Pacific (DEAP)
- Reported to President of DEAP
 - Responsible for all engineering design and deliverables for all Asia/Pacific customers worldwide
 - CAGR at 30% to 40% with revenue at ~\$250 Million in 1996, across six product lines, eight customers, and OEM facilities in six countries
 - Responsible for application engineering and design centers in Asia/Pacific region
- 1989-1994 **DELCO ELECTRONICS CORP.,** Hughes Electronics Co., Kokomo, IN
Director of Advanced Development/Systems Integration
- Reported to General Director of Engineering
 - Responsible for all product development for \$5 Billion automotive electronics business, seven departments covering integrated circuit fabrication through automotive safety & infotainment systems
 - Budget in 1994 was over \$50 Million with ~450 people worldwide
 - Developed new products now in production: forward looking radar, solid state YAW sensors, advanced airbag system electronics, head up displays, RDS audio for North America, IR-based night vision, electric vehicle power electronics, and telematics

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1984-1989	DELCO ELECTRONICS CORP. , Hughes Electronics Co., <i>Department Head, Advanced Instrumentation & Display</i> • Reported to Chief Engineer, Instrumentation & Display	Kokomo, IN
1978-1984	AC SPARK PLUG DIVISION , General Motors Corporation, <i>Supervisor and Department Head, Materials Development</i> • Reported to Chief Engineer, Advanced Development	Flint, MI
1971-1978	GENERAL MOTORS RESEARCH LABORATORIES , Senior Research Scientist	Warren, MI

EDUCATION	RUTGERS UNIVERSITY , <i>Ph.D. – Material Science/Ceramic Engineering, 1972</i>	New Brunswick, NJ
	CORNELL UNIVERSITY , <i>B.S. – Electrical Engineering, 1967</i>	Ithaca, NY
	UNIVERSITY OF MICHIGAN , <i>MBA – Operations & Strategy, 1984</i>	Flint, MI
	UNIVERSITY OF ILLINOIS , <i>Executive Management Program, 1985</i>	Urbana-Champaign, IL

AWARDS

- Vincent Bendix Automotive Electronics Engineering Award for Outstanding Society of Automotive Engineers Paper, 1978
- Arch T. Colwell Merit Award for Outstanding Society of Automotive Engineers Technical Presentation, 1978
- “Boss” Kettering Technical Award (internal GM, 3 to 5 given per year) 1979
- Elected Fellow, American Ceramic Society, 1984
- Delphi Innovation Hall of Fame, 1997
- Cornell University, Commitment to Community Service Award, 2009
- Lambda Chi Alpha National Fraternity, Distinguished Service Award, 2010
- Indianapolis Symphony Orchestra Board Volunteer of the Year Award, 2012
- Lambda Chi Alpha Recognition Award for service to the National Fraternity, the local chapter, and the entire Greek Community at Cornell University, 2013
- James H. McLaughlin Interfraternity Service Award, 2015 (by Zeta Psi Fraternity)
- Cornell University, Distinguished Alumni Service Award, 2018

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Other:

- Recipient of three US patents.
- Author of dozens of technical papers (mostly refereed journals) and invited presentations.
- Member/Fellow of numerous technical societies.
- Served on Board of Directors, Mecel AB, Amal, Sweden.
- Served on Industrial Advisory Board, Department of Electrical Engineering, Northwestern University.
- Served as Team Director, Cornell University – General Motors Corp. University relations.
- Served as Board Member, Delphi Delco & Kokomo Center Schools Educational Partnership.
- Served as Board Member, General Fraternity Board & Executive Committee, Lambda Chi Alpha Fraternity.
- Served as Board Member, Educational Foundation Board, Lambda Chi Alpha Fraternity
- Served as accredited member for Ceramic Engineering Education for the Accreditation Board for Engineering & Technology.
- Served as Board Member/Elder for multiple committees, First Presbyterian Church, Noblesville, Indiana.
- Served on Board of Advisors for an Active Safety Institute Consortium.
- Served as part-time lecturer at Cornell University, Department of Material Science & Engineering and Department of Architecture and Planning.
- Served on Advisory Board for the Indiana Economic Development Corporation.
- Served as Honorary Board Member, Lambda Chi Alpha Chapter, Alumni Board, Cornell University
- Serving on numerous Cornell University committees & activities, including:
 - Cornell University Council, Administrative Board
 - Fraternity Sorority Advisory Council (Chair and Steering Team),
 - Student & Campus Life Advisory Council,
 - Cornell Volunteer Alumni Leadership Summit,
 - Cornell Alumni Affairs “Blue Sky” focus group,
 - Various ad hoc Council Committees, COE Outdoor Education Steering Team, and multiple Reunion Committees (25th through 50th).
- Serving on the Board of Directors (Co-Chair) for Cayuga’s Watchers (501-c3 for trained interventionists)
- Serving as Board Member, Indiana Symphony Society, parent of the Indianapolis Symphony Orchestra (Board Affairs, Executive Committee, Audit, Innovation & Marketing Committees).
- Served on Board of Advisors, North American Start-up with Automotive Safety Systems products.
- Serving on Industrial Advisory Board, R.B. Annis School of Engineering, University of Indianapolis.