

Robert Hoekstra



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His expert witness experience spans more than ten years and includes intellectual property, product design, product liability and mechanical failure analysis, manufacturing system failure, and safety analysis. He is the author of a robotics text, and journal and conference papers that include automation systems, alternative fuels and automotive engine design. He formerly was a NASCAR engine researcher and designer with Penske Racing. He is the holder of six US patents that include alternative automotive fuels and furniture design.

Education

Ph.D. College of Engineering, University of Cincinnati, 1992
Dissertation: Design for Assembly
M.Des. Master of Design, School of Design, Art, Architecture, and Planning, University of Cincinnati, 1988
A.B. General, Major: English, Calvin College, 1969

Awards and Honors

Industrial Engineering Departmental Teaching award

- Sigma xi
- Industrial Engineering Teach Incentive Award
- National Academy of Inventors

Courses Taught

Manufacturing systems, Concurrent Engineering and Product Design Methodologies, Metrology, Robotics and Automation, Computer Aided Design, Internal Combustion Engine Analysis, Advanced and Nontraditional Manufacturing Methods, Statistics, Engineering Design Innovation

Consulting Experience

Product design, manufacturing systems design, robotics and automation system design for more than 50 firms.