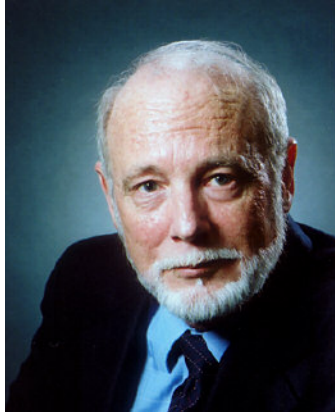


Robert Q. Riley Biographical Sketch

Robert Q. Riley is an author, industrial designer and a mechanical engineer with successes in a wide range of product categories.

His automotive experience includes vehicle styling, packaging, and power train design. He has produced energy-efficient, high-performance three-wheel road vehicles, electric and hybrid cars, and conventionally powered automobiles of up to 128-mpg fuel economy. He pioneered the automotive application of FRP/foam composite, designed GM's Drive I electric car, and developed the urban car now on display at the American Museum of Science and Energy at Oak Ridge, Tennessee. Today, he is considered one of the world's foremost pioneers in the design of low-energy-demand passenger cars. His most recent work in the automotive field is the 125- to 200+-mpg XR3 Hybrid.



XR3 Hybrid super-mileage three-wheel vehicle

Mr. Riley is also a prolific designer outside the automotive field. His non-automotive designs range from high performance watercraft, submersibles, hovercraft and human powered vehicles to fitness and medical products such as the Numo and the award-winning ARRIS medical imaging system. He has been referred to as the "father of the modern bent" for his early work in revitalizing the highly efficient but largely forgotten recumbent bicycle. At the beginning of the new millennium, he again advanced the state of the art in recumbent design with the release of his cutting-edge Ground Hugger XR2 carbon fiber machine. A solar-assist version of the XR2 won first place in its category and third place overall in the 2001 Australian World Solar Cycle Challenge.



Numo Fitness System

Mr. Riley consults on new product design and strategies. He writes and speaks on sustainable energy and alternative automobile design. He has led conference workshops and speaks at

industry, scientific, and academic events. He consulted on the Different Roads automobile exhibit at New York's Museum of Modern Art and was the lead speaker at the museum's day-long symposium on the future of the automobile. He was one of two U.S. technical consultants selected by Delcan Corporation to contribute to



Canada's ARRIS Imaging System *Sustainable Transportation Technology Forecast*, a study on transportation solution options for Canada's Sustainable Development Strategy.

Other Noteworthy Accomplishments

- Author of *Alternative Cars in the 21st Century: A New Personal Transportation Paradigm* (Society of Automotive Engineers, 1994; Second Edition 2003), and *Alternative Fuels for Spark-Ignition Engines* (for a volume on Motor Gasoline in the series, *Critical Reports on Applied Chemistry*, Royal Society of Chemistry and the Society of Chemical Industry, U.K., 1995).
- Produced more than 20 special-publication products for Fawcett Publications, CBS Publications, Hearst Magazines, and Times Mirror Magazines, and over 30 feature articles for magazines such as *The Futurist* and *Popular Mechanics*.
- Co-inventor and developer of The Lean Machine home fitness system, which pioneered the programmable-resistance, low-inertia exercise system in the consumer market.
- The first to build and fly a full-size replica of the Wright Brothers' 1902 Glider. The glider is now on permanent display at the California Science Center at Los Angeles, California.



Professional Affiliations

- Society of Automotive Engineers (SAE)
- Intelligent Transportation Society - Arizona (ITS)
- Industrial Designers Society of America (IDSA)
- Marine Technology Society (MTS)
- Advisory Board Member of Sarge Motors

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Robert Q. Riley SERVICES

Industrial & Mechanical Design

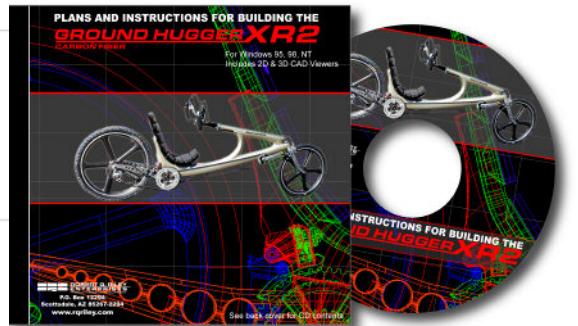
Vehicle Dynamics, Styling, & Power Train Design
Product Styling & Theme Development
Sub-System & System Design
Manufacturing & Assembly Processes
Packaging Design
Strategy-Oriented Design



Remotely-monitored modular commercial reverse osmosis system developed for Cirqua Customized Water, Camarillo, California.

CD-ROM & Print Media Development

Technical, Assembly & User Manuals
Design & Layout
Technical Writing
Graphic Art
HTML Authoring
CD-ROM Authoring



XR2 carbon fiber recumbent bicycle designed as an in-house project. Winner in category of 2001 Australian World Solar Cycle Challenge.

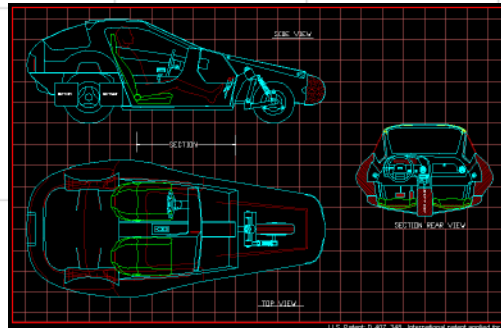
3D Modeling

SolidWorks
RhinoCeros



2D Drafting & Technical Illustration

AutoCAD
SolidWorks
RhinoCeros



Project 32 tilting three-wheel vehicle designed for Transit Innovations, Fairfax, Virginia.

Concept to Completion



Numo Fitness System - Air-Powered, Voice-Commanded, Cam-Controlled



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