

*Prof.*  
**LANCE  
RAKE**, IDSA

The University of Kansas  
Department of Design  
Art and Design  
1467 Jayhawk Blvd., Room 300  
Lawrence, Kansas 66045

*Office*

300 Art & Design Building, Department of Design  
The University of Kansas, Lawrence, Kansas 66045  
phone: 785-424-3117 e-mail lgrake@ku.edu

*Home*

917 Illinois Street, Lawrence, Kansas 66044 phone: 785.749.4665

*Experience*

For over 35 years, I have been learning, practicing, and teaching industrial design, often at the same time. Currently Professor of Industrial Design at the University of Kansas, I have also taught full-time at Auburn University and UNITEC (formerly Carrington Technical Institute) in Auckland, New Zealand. Additionally, I have taught short courses at Konstfackskolan in Stockholm and been a visiting professor at Staffordshire University in Stoke-on-Trent, England. My design research has been supported by private and public grants, and findings presented at national and international design conferences and institutions.

Working alone or in collaboration with other professionals, I have designed commercial products, consumer products, interiors, graphics, packaging, and exhibits. In 2004, the editors at ID Magazine chose the "Design 50"- profiling one designer in each state. I was honored to represent Kansas.

Recently, I have been using my experience as both teacher and practitioner of design to serve as an expert witness in design patent infringement and product liability cases.

1987-present  
The University of Kansas, Lawrence, Kansas  
Professor of Design,  
Acting Director, Center for Design Research, 1995-2003

2000-present  
Infusion Design, Bonner Springs, Kansas  
Consultant

1995-2005  
The New Deal Playing Card Company, Leawood, Kansas  
Vice President Strategic Product Development

2001  
Leon Paul, Ltd, London, England  
Design Consultant (sabbatical leave)

1993  
Hans Skillius Design, Halmstad, Sweden  
Design Consultant (sabbatical leave)

1985-86  
UNITEC Institute of Technology, Auckland, New Zealand  
Course Supervisor, Design

1980-84

Auburn University, Auburn, Alabama  
Assistant Professor, Industrial Design

1979-80

Interface Design Group, Milwaukee, Wisconsin  
Manager, Industrial Design

1978-79

Stan Johnson Design, Milwaukee, Wisconsin  
Design Director

1975-78

Anacomp (div Bell & Howell Co.), Hartford, Wisconsin  
Manager, Design Services

1974-75

Prism, Inc., Racine, Wisconsin  
Industrial Designer

### *Education*

1982

Master of Industrial Design, North Carolina State University  
Raleigh, North Carolina

1974

Bachelor of Fine Arts, The University of Kansas  
Lawrence, Kansas

2008

IDSA Continuing Education Certificate  
“How to Serve as an Expert Witness in Design Patent Litigation”  
Taught by Perry J. Saidman and Cooper C. Woodring

Expert Witness

I particularly enjoy being asked to serve as a legal expert- it pulls together the full extent of my experience as a design educator, practitioner, writer, and presenter. The work is creative, demanding, precise, and intensely scrutinized.

2009

Husch Blackwell Sanders LLP, St. Louis, MO.  
Color Analysis, for a trade dress case.

2008

Allen, Dyer, Doppelt, Mibrath & Gilchrist, P.A., Orlando, FL.  
Design Analysis, for a design patent infringement case (apparel).

2008

Allen & Vellone, P.C., Denver, CO.  
Design Analysis, for a design patent infringement case (apparel).

2007-present

Wooten, Honeywell, Kimbrough, Gibson, Doherty and Normand, P.A., Orlando, FL.  
Design Analysis, Testing, for a product liability case (consumer seating).

2000-2001

Holbrook Law Office, Orlando, FL.  
Design Analysis, Testing, for a product liability case (contract seating).

1999-2000

Rausch Hendicks German May, Kansas City, MO.  
Defense expert for design patent infringement case.

1998

Skepnek & Maddox, Lawrence, KS. Center for Design Research  
The University of Kansas. Created forensic computer animation for a  
medical malpractice case.

1994-1996

Purdy & Flynn, Fort Lauderdale, FL.  
Design Investigation, Analysis, Modeling for a product liability case.

1992-1994

Holbrook & Hardy, Orlando, FL.  
Design Investigation, Analysis, Modeling for a product liability case.

### *Museums, Collections*

1998

The line of New Deal Playing Cards, designed from 1995 was added to the  
permanent collection at the Deutches Spielkarten-Museum in  
Leinfelden-Echterdingen, Germany.

New Deal cards are also in the Stuart and Marilyn R. Kaplan Playing Card Collection,  
the most comprehensive collection in the United States.

### *Selected Grants*

2004

General Research Fund, the University of Kansas.  
“Design of the Next Generation General Aviation Aircraft Interior”.

1999

General Research Fund, the University of Kansas  
“Design of High- Performance Titanium Sabre using 3D Solid Modeling,  
Testing, and Evaluation Technologies”

1998

United States Olympic Committee.  
“Fencing Shoe Design”  
Consultant with Dr. Mark Geil, Georgia Institute of Technology.

1993

General Research Fund, the University of Kansas.  
“The Electronic Mock-up as a Conceptual Tool for Industrial Designers”.

2000 2001

Research and Development Fund, the University of Kansas.  
“Proposal Development for NASA’s University Earth System Science  
(UnESS) Program”.  
Consultant with Dr. Mark Ewing et al

1993

Intergraph Corporation, USA, and Intergraph Sverige, AB.  
Equipment grant.

1989

General Research Fund, the University of Kansas.  
“Product Development Using an Alternative Design Strategy”.

1988

SOR, Inc. Olathe, Kansas  
“Using Traditional Materials and New Technologies in an Alternative Design Strategy”.

1984

Research Grant-In-Aid, Auburn University.  
“The Efficacy of Training on the Development of Creative Thinking Ability”. Lance G.  
Rake, Dr. Janet B. Taylor

## *Additional Grants*

The following grants were written and received by me as the Acting Director of the KU Center for Design Research. I assembled the design teams, organized the projects, and dispersed funding. I consider the work I've done in this capacity as some of the most rewarding in my career.

2006

Bass Pro Shop, Springfield, Missouri  
Center for Design Research, The University of Kansas.  
“Adventure Travel Luggage.”

2006

Hunter Fans, Memphis, Tennessee  
Center for Design Research, The University of Kansas.  
“Exploring Innovations in Fan Design.”

2005

Wenzel, St. Louis, Missouri  
Center for Design Research, The University of Kansas.  
“New Product Ideas for Family Camping Tents.”

2003

Big Dog Motorcycles, Wichita, Kansas  
Center for Design Research, The University of Kansas.  
“Portable Outdoor Exhibition Space.”

2002

Cardinal Brands, St. Louis, Missouri  
Center for Design Research, The University of Kansas.  
“New Product Ideas for the Scrapbook Market.”

2001-2002

Cardinal Brands, St. Louis, Missouri  
Center for Design Research, The University of Kansas.  
“Back to School Product Design. Investigation, Analysis, and Design.”

2001-2002

Infusion Design, Bonner Springs, Kansas  
Center for Design Research, The University of Kansas.  
“New Product Opportunities in the Recreational Boat Industry.  
Investigation, Analysis, and Design.”

1999-2000

MountainHigh Coachworks, Ontario, California  
Center for Design Research, The University of Kansas. “Recreational Vehicle  
Design for a New Market Segment. Investigation, Analysis, and Design.”

1999

Trico Manufacturing, Pewaukee, Wisconsin  
Center for Design Research, The University of Kansas.  
“Design of a Closed System Bearing Oiler”.

1995-1998

FENA DESIGN, St. Cloud, Minnesota  
Small Business Innovation Research Program Grant.  
Center for Design Research, The University of Kansas.  
Jay Johnson, Lance G. Rake, et al.

1995

U.S. Department of Agriculture. North Central Region  
Sustainable Agriculture Research and Education Program  
Center for Design Research, The University of Kansas.  
Dan Nagengast, Lance G. Rake.

1994  
Compaq Computers, Houston, Texas  
Center for Design Research, The University of Kansas.

1994  
Learjet, Wichita, Kansas  
Center for Design Research, The University of Kansas.

### *Student Awards*

2003  
NASA Langley Research Center, Hampton, VA  
'Revolutionary Vehicles: University Student Competition'.  
Center for Design Research team achieve a third tier finish in this national competition by presenting innovative concepts for a system that would use advanced small aircraft to relieve road and air gridlock and increase access to the nation's more than 5,000 public-use airports.

2003  
Industrial Design Excellence Award (IDEA).  
Brian Carter, a student of mine at the Center for Design Research, was named a gold winner in the prestigious 2003 Industrial Design Excellence Awards (IDEA) competition, an international design competition co-sponsored by "Business Week" magazine and the Industrial Designers Society of America (IDSA).

2003  
NASA Langley Research Center, Hampton, VA  
Revolutionary Vehicles: University Student Competition.  
A team of my students at the Center for Design Research place third in this national competition by presenting innovative concepts for the interior of a highly automated aircraft-part of NASA's SATS (Small Aircraft Transportation System) program.

1990  
Design 90  
Tim Gorman, a graduate student, was a finalist in this prestigious automotive design competition (one of 3).

1989  
Zebco/ Quantum/ Motorglide Student Design Competition  
Jon Taylor, and undergraduate student, won this national design competition.

1989  
Industrial Design Excellence Award (IDEA).  
Jon Taylor placed 3rd in the student category.

1988  
Domus Academy, Milan, Italy  
Chris Frank won the Domus Academy Scholarship, the only one offered to a North American student.

### *Patents*

2009  
Rubbermaid  
Storage System  
Patent Applied For

2009  
Rubbermaid  
Power System  
Patent Applied For

2008  
James Wilmsen  
Extension for a Golf Club Shaft and Method of Installing the Same  
US 20080081708

2007  
Hodgdon/Wright Enterprises  
Fishing Bobber  
US Utility Patent Pending

2007  
Cramer, Inc.  
Footstool/Ladder  
US Utility Patent Pending

2005-2006  
Schroeder & Tremaine  
Temperature Gauge/ Barometer  
US Design Patent D 538694

2003  
Leon Paul Ltd, London.  
Protective Fencing Mask (with Barry Paul)  
US 20030070202  
US 20020157167

1995-1998  
The New Deal Playing Card Company. Leawood, Kansas  
Ergonomic Playing Cards.  
5490676

1982  
Doolittle & Wellington, Milwaukee, Wisconsin  
D 265146

### *Presentations*

2008  
“Unapologetically American” presented at the SVID Designdagen conference at Halmstad University, Halmstad, Sweden.

2007  
“Towards Reality in Industrial Design” presented at the Institute for Design, Umea University, Umea, Sweden. Attended by faculty and graduate students Industrial, Transportation, and Interaction Design.

2007  
“My Life Aboard the Titanic” presented at Konstfackskolan, the national art & design school, Stockholm, Sweden. Attended by Industrial Design faculty, undergraduate, and graduate students.

2007  
“Industrial Design, Learning to Live Without Modernism” paper presented for Industrial Design and Innovation Engineering graduate students and faculty at Halmstad University, Halmstad, Sweden.

2005  
SVID, Swedish Society of Industrial Design, Halmstad, Sweden  
“The Future of Graduate Design Education”, invited presentation for “Designdagen”- Swedish Design Day. 2005 has been designated as “Design Year”

2004  
Halmstad University, Halmstad, Sweden  
“Industrial Design Education and Practice in a Multidisciplinary and International Context”, invited presentation for administrators, faculty, and students.

2003  
9th Annual National Ergonomics Conference and Exposition, Las Vegas  
“Ergonomics: A Commonsense Approach for Industrial Designers”

1994

Symposium Design Thinking- Expressive Solutions, Helsinki, Finland “The Beauty of Chaos; the Chaos of Beauty”

1991

Product Semantics and Visual Semiotics in Design Conference  
Helsinki, Finland  
“Toward Reality in Industrial Design”

1990

Industrial Designers of America Conference on Design Education,  
Pasadena, California  
“Industrial Design: Learning to Live Without Modernism”

1989

School of Visual Arts’ third annual National Conference on Liberal Arts  
and the Education of Artists, New York  
“Design is the Problem”

1986

National Art and Design Education Symposium, Auckland, New Zealand  
Invited Panel Member

1985

New Zealand Society of Industrial Designers  
regional meeting, Auckland, New Zealand  
“Experiential Learning in Industrial Design Education”

### *International Experience*

2009, Selected by ICSID (International Council of Societies of Industrial Design) to participate in the 2009 Interdesign- City Move event. This event has received additional support from the EU. 40 professionals and academics from around the world and representing a number of different disciplines are meeting in Gellivare, Sweden to develop a comprehensive plan to move, redesign, redevelop, and repopulate a city.

2004-Present

Coordinator, Study Abroad Program to Halmstad University, Halmstad, Sweden. Building on relationships established on sabbatical in 1993, I initiated a series of visits between the Industrial Design program at the University of Kansas and the Product Design program at Halmstad University in Sweden. In May, 2004, an agreement was signed between the KU Office of Study Abroad and the Halmstad International Office, formalizing the relationship. Exchanges began in Summer, 2004, and further exchanges are planned for the 2004-2005 calendar.

2001

Stratford-upon-Avon, and London, England.

On sabbatical from January-August, my research involved weekly visits to London. I also took the opportunity to visit our exchange students at Staffordshire University in Stoke-on-Trent, and represented the department at the end of year shows in Coventry, Manchester, Preston, and Goldsmith College in London.

1999

Faculty Exchange to Staffordshire University in Stoke-on-Trent, England. I taught advanced level students in Industrial Design and participated as external mediator in final design reviews.

1994

I went to Milan, Italy to develop possible student/faculty exchanges and summer design courses. My interaction with the Director of the Design School at IED led to the creation of a summer introductory course that would provide insight into the influences and references that make the “Italian Style”. A shortened version of this proposed course made up centerpiece of the summer course conducted by Professor Green (SS 95). The Summer Design Program continues today and has become an important educational enhancement for the design students at KU.

1993

Skilliis Design, Halmstad, Sweden

I was primarily conducting sabbatical research in a professional design office. This study led to contacts at Halmstad University (see above), as well as contacts at Chalmers University in Goteborg, and at Konstfackskolan in Stockholm. Taught a seminar in computer design and animation at Konstfackskolan, the most prestigious design school in Sweden.

1991

Presented paper on Design Semantics at an international design conference in Helsinki, Finland.

1985- 1986

UNITEC Institute of Technology, Auckland, New Zealand

Course Supervisor, Design

I was challenged to rebuild the product design program at the largest school of Industrial Design in New Zealand. In addition to having full-time responsibilities as a faculty member, I was promoted to Course Supervisor in order to restructure the design course. Working closely and collaboratively with other faculty, we rewrote the curriculum and established a design pedagogy that is still in place today. I met frequently with faculty members from all of the design schools in New Zealand, and several of the schools in Australia.

### *Courses Taught- The University of Kansas*

Materials and Processes

Survey of materials, focusing on applications in Industrial Design.

Required course, Junior/ Senior/ Graduate level

Problems in Industrial Design, Advanced Problems in Industrial Design

Usually comprises the design staff of the Center for Design Research. Students from Junior to Graduate level work together as a professional design office on projects usually sponsored by industry. We have worked on projects from a range of sponsors, including Learjet, Compaq Computers, US Department of Agriculture, and Big Dog Motorcycles

Required course, Junior/ Senior/ Graduate level.

Graduate Industrial Design Studio

Individually structured course, working with Graduate students on thesis projects

Required course, Graduate level

Special Problems in Design

Individually structured course, working with design students on enhancement project that fall outside the basic curriculum .

Elective course, Junior/ Senior/ Graduate level.

Directed Reading in Design

Individually structured course that exposes students to major writing and theory in Architecture and Design.

Elective course, Junior/ Senior/ Graduate level.

Visual Presentation

Advanced drawing technique course for Industrial and Interior Design students.

Required course, Junior/ Senior level.

In my tenure at The University of Kansas, I have taught all of the design studio courses we offer. Our studios are experimental, where students put all of the skills and theory they have learned in practice on a variety of product design projects.

Each project requires organization, research, conceptualization, development, technical documentation, and final product modeling and communication.

Industrial Design I

Industrial Design II

Industrial Design III

Industrial Design IV

Undergraduate Thesis

Internship

It is usually my responsibility to help students secure internships, and to keep track of their progress when they are in the field.

## *Partial Client List*

Over the past 30 years, I have worked as a professional designer; working in corporate design studios, consulting offices, or as a freelance designer on a very broad range of projects. This includes the design of motorcycles, air circulators, aircraft interiors, micrographic readers, orthopedic traction systems, knives, space heaters, furniture, power tools, retail fixtures, electronic controls, playing cards, games, work environments, cranes, lawn and garden tractor, trade show exhibits, string trimmers, snowmobiles, VHS cassettes, medical products, audio amplifiers, industrial electrical control housings ,bags, back to school products, electrical substation enclosures, excavator cabs, bird houses and feeders, fence posts, tool cabinets, boat interiors, motor coach interiors, and plumbing fixtures.

Adams Aircraft, Mojave, CA Aircraft Interior Design  
ADS, Huntsville, AL Corporate Identity Research and Design  
Aladdin Industries, Nashville, TN Various Camping Products  
Alberta Aerospace, Alberta, Canada Design Proposal, Aircraft Interior Design  
Alfa-Laval, AB, Stockholm, Sweden Agricultural Product Design  
Auburn University School of Pharmacy, Auburn, AL Consultation Booth  
Auckland University School of Medicine, Auckland, NZ Asthma Inhaler  
Baker Electronics, Miami, FL Aircraft Switches  
Beauty Brands, Kansas City, MO Interior/ Fixture Design  
Bell & Howell, Lincolnwood, IL Office Product Design  
Bergström, Halmstad, Sweden Promotional Products Design  
Birkenstock, USA, Novato, CA Store Fixture Design  
Bolens, Port Washington, WI Lawn Tractor Design, Product Graphics  
Bose Research, Boston, MA Store Fixture Design  
Brian Russell Designs, Auckland, NZ Highchair Design  
Briggs & Stratton, Milwaukee, WI Exhibit Design  
Bruning International, Itasca, IL Office Product Design, Product Graphics  
Bucyrus-Erie, Milwaukee, WI Heavy Equipment Design, Product Graphics  
Bushnell, Lenexa, KS Night Vision Monocular Design  
Cardinal Brands, St Louis, MO Office Organizers  
J.I. Case Company, Racine, WI Heavy Equipment Design, Product Graphics  
Chicagofest, Chicago, IL Graphic Design  
Collins Communications Technologies, Milwaukee, WI Corporate Identity  
Coleman, Wichita, Kansas, Product Design  
Crabtree Music, Milwaukee, WI Graphic Design, Corporate Identity  
Cramer, Inc, Kansas City, MO Product Design  
Cutler-Hammer, Milwaukee, WI Exhibit Design  
Drott Manufacturing, Wausau, WI Heavy Equipment Design, Product Graphics  
Eagle Creek, San Diego, CA Store Fixture Design  
Embraer, São Jose, Brazil Aircraft Interior Design  
Excel/Hustler, Hesston, KS Lawnmower Design  
Fairchild-Dornier, Oberpfaffenhofen, Germany Paintscheme, Product Graphics  
Filer & Stowell, Milwaukee, WI Heavy Equipment Design, Product Graphics  
Fischer & Paykel, Auckland, NZ Machine Design  
Företagsutvecklarna, Växjö, Sweden Gas Candle Design  
Galaxy Aerospace, Dallas, TX Aircraft Interior Design  
Gametime, Inc., Fort Payne, AL Outdoor Furniture Design  
Grahm Transmissions, Milwaukee, WI Product Graphics  
Harley-Davidson, Milwaukee, WI Transportation Design, Model Building  
Hawker/Beechcraft, Wichita, KS Aircraft Interior Design  
Huhtamaki, Desoto, KS Product Design  
Helio, Bristol, TN Aircraft Interior Design Proposal  
ICOR, AB, Stockholm, Sweden Medical Product Design  
IKEA, Stockholm, Sweden Clothes Hanger Design, Recycling Bin Design  
Jockey International, Kenosha, WI Exhibit Design, Store Fixture Design  
Kohler, Kohler, WI Exhibit Design  
Larson/Glastron, Little Falls, MN Leisure Boat Design  
Learjet, Wichita, KS Aviation Design  
Leon Paul, London, England Fencing Mask, Scoring Box Design  
Marathon Electric, Wausau, WI Store Fixture Design  
Martin Industries, Florence, AL Electric Space Heater Design  
Matthews Heater Co., Albertville, AL Electric Space Heater Design  
Micro Design, Hartford, WI Product Design, Corporate Identity, Strategic Planning

Micron, Iron Ridge, WI Product Design, Corporate Identity, Strategic Planning  
Minder Systems, Auckland, NZ Electronic Control Design  
New Deal, Leawood, Ks Product Design, Corporate Identity, Strategic Planning  
Newell Motorcoach, Miami, OK Motorcoach Design, Product Planning  
Pantone, New York, NY Bags, CD Cases, Journals, Organizers, Notebooks  
Perm-a-Store, Wichita, KS Product Design- Protective Cases  
Polaris, Roseau, MN Snowmobile Design, Product Graphics  
Poulan, Shreveport, LA String Trimmer Design, Lawnmower Design  
Raaco, Copenhagen, Denmark Plastic Toolbox Design  
Ranger Boats, Flippin, AR Boat Design  
Raetheon, Wichita, KS Aircraft Interior Design  
Raetheon, Wichita, KS Aircraft Interior Design  
Rubbermaid, Huntersville, North Carolina, Product Design  
Singapore Airlines, Singapore Corporate Aircraft Interior Design  
Snorkel, Kansas City, MO Paintscheme, Product Graphics  
Spectrum, San Diego, CA Aircraft Interior Design  
Sutherland Engineering, Lawrence, KS Audio Amplifier Design  
S.O.R. Inc., Olathe, KS Pressure Switch Design, Workstation Design Planning  
The North Face, Oakland, CA Store Fixture Design  
Trek Bicycles, Baraboo, WI Product Graphics  
Triad, St. Louis, MO Store Fixture Design  
Walker Manufacturing, Racine, WI Exhibit Design  
Wal-Mart, Bentonville, AR Point-of-Sale Design, Interior Design  
Weed Eater, Houston, TX String Trimmer Design, Lawnmower Design  
Western Publishing, Racine, WI Exhibit Design  
Xikar, Kansas City, MO Product Design, Strategic Product Design

### *Professional Honors*

2004, ID Magazine "Design 50". The editors at ID chose to profile the work of 50 US designers in their January/February 2004 Issue- one from each state. I was honored as the designer chosen to represent Kansas.

### *Recent Creative Work Summary:*

Since January, 2000, I have been doing design research and development work in the Kansas City office of Infusion Design. My activity is focused in the area of advanced concepts and proposals, usually in the areas of product design and transportation design. It would be impossible to complete most transportation design projects without working in a team, due to the scale and complexity of the work. The projects listed below are ones that I served as lead designer and had primary responsibility for the outcome.

2006-2008

Spectrum Aviation, San Diego, CA

Comprehensive design and development of a new composite business jet. This included conceptual design, computer modeling and physical fractional scale and full-scale mock-ups. This was a huge and complex design program that required my coordination of material, engineering and design resources in California, Arizona, Texas and Kansas- in addition to conceptual design work. Final design mockups shown at NBAA in Fall, 2007.

2006-2008

Learjet, Wichita, KS

Concept design and sketching for a proposed new model business jet to replace an obsolete model in the line.

2006-2008

Piaggio, Tirana Italy

Redesigned the interior for the Avanti business airplane.

2005-2008

Excel-Hustler, Wichita, KS

Design and development for an electric riding lawn tractor. This model is currently in engineering development. Design concepts for a new consumer-level ZTR (zero turn radius) riding lawn mower.

2005-2008

Ranger Boats, Flippin, Arkansas

In 2007 I helped redesign the entire line of Ranger family/fishing boats.

2006 Designed a boat in a new category for Ranger- the family Deckboat.

In 2006 I designed a new, entry-level fishing boat for Ranger, to be sold under the Stratos name. This boat went into production late summer, 2006.

2006. I designed a retro "40th Anniversary" bass fishing boat.

2005-2006

Schroeder & Tremayne, St. Louis, Missouri

Schroeder & Tremayne is an OEM manufacturer/ distributor of a large number of automotive aftermarket products. For them, I have designed car cleaning products, a Garage Organizer System, a successful line of car-related gift items, and a line of bathroom accessories.

In 2006 I redesigned the "Soapjet" car washer and modeled it in Solidworks for production. Now in production.

2005-2006

Rubbermaid, Huntersville, North Carolina.

I have designed several products for Rubbermaid in 5 separate categories:

1. Auto Products

Car totes, backseat storage products for children, and trunk organizers

2. Garage Products

Storage, portable and permanent workbenches, a power rail system and accessories.

3. Cleaning Products

Buckets, Stepstools, Mops, Brooms, Dustpans, etc.

4. Home Office

Lighting, desks, storage, paper shredders, wastebaskets, misc. storage.

5. Exercise Products

Exercise balls, mats, weights, storage, and totes

Several of the Rubbermaid products are undergoing focus group testing for marketing purposes.

2006

Zebco, Tulsa, OK

Redesigning production packaging for entire line of spinning and spincast reels. Designs must be inexpensive, visually interesting, and secure.

2006

Vector, Ft Lauderdale, FL

Design concepts for a flashlight with a built-in tripod base feature.

2005-2006

American Recreational Products, St Louis, MO

Designed several polycarbonate water bottles, many of them under the Eddie Bauer brand. One of the first bottles, designed in 2005, is currently available in Target stores nationwide.

2005-2006

Coleman, Wichita, KS

Designed a number of products for this outdoor equipment manufacturer, including a line of flotation toys, outdoor shelters, portable food preparation products, camping related tools and accessories.

2006-2007

Aerion Corporation, Reno NV

Designs for interior and exterior of a start-up supersonic business jet. Also designing presentation and promotional materials for the 2007 Paris Airshow and 2007 NBAA.

2003- 2004

Schroeder & Tremayne, St. Louis, Missouri

Schroeder & Tremayne is an OEM manufacturer/ distributor of a large number of automotive aftermarket products. For them, I have designed car cleaning products for the Hummer brand, Children's Activity kits for the Crayola brand, and a number of other products including ice scrapers and message boards.

2003

Xikar, Kansas City, Missouri

This is a regional manufacturer of cutlery- in 2003 I worked with one other person to generate dozens of new product concepts and marketing strategies to help Xikar management determine new business strategy for the next 5-10 years. We introduced new products ranging from pocket knives to scissors, bicycle tools, fishing tools, golf tools, carving sets, and steak knives.

2003, 2007

Hawker-Beechcraft, Wichita, Kansas

I worked with a small team of designers at Infusion to develop new interior concepts for the Premier and Hawker lines of business jet aircraft.

2002

Pantone, New York

I led a team that designed a line products for Pantone, to be distributed through Target stores. Over 100 products were designed, and most of them were developed to the prototype stage for market testing. These products included notebooks, bags, binders, address books, CD cases, portfolios, and journals. They were designed for 3 distinctly different markets: students, entry-level professionals, and established professionals.

2002-present

Embraer

In 2002 and 2003, I worked on several design projects for this Brazilian aircraft manufacturer, including the design of their Paris Showroom, design of their Florida Design Center, preliminary feasibility studies for the I60 model, and numerous concepts for modifications to the Legacy- a commercial commuter airframe modified for business use.

2001- 2002

Singapore Airlines, Singapore

In late 2001, Infusion was asked to propose design ideas for the first class and business class cabins for the new triple deck Airbus A380. I led a team of designers that generated hundreds of new concepts for this revolutionary commercial aircraft. This was an incredibly complex program, requiring several hundred hours of design time- probably the most interesting and challenging project of my career to date.

2001

The North Face, Oakland, California

Building on the success of the Eagle Creek project, Infusion was asked to submit a proposal to restructure retail design at The North Face. I was asked to head the design research team. We have completed research and concept design phases.

2000-2001

Adams Aircraft. Mojave, California

Concept interior design for this Rutan-designed composite aircraft. This project moved from extensive research, through concept sketching, sketch modeling, and development through 3D computer studies. Finally, a full-scale mock-up was build, and the interior was modeled in clay.

2001

Leon Paul, Ltd. London, England.

I designed a new fencing mask for the second largest manufacturer of fencing equipment in the world. This design was awarded patents in EU and US in 2003.

I also designed an electronic scoring machine for the sport of fencing that uses LED lights in clusters to get brightness from a very small amount of power. Ongoing projects include an advanced saber design that is based on the ideas developed in a previous KU GRF grant.

2000

Eagle Creek, San Diego, California

Headed a team of designers at Infusion who won a competitive bid to redo retail design at Eagle Creek. This was a comprehensive project that involved many stages of research, design, and manufacturing. Several concept shops have been installed and recently awarded recognition by the retail fixture manufacturers trade organization. Won a national award for retail design in 2001.

2000

Bushnell, Olathe, Kansas

I developed a series of concepts that investigated the possible commercial applications of recently purchased Russian night vision monocular technology.