

## Summary

More than 12 years experience in automotive engineering with an emphasis on testing, development, computerized digital data acquisition, and usability evaluations. Extensive experience working with manufacturers and suppliers to investigate, analyze, and recommend design changes related to customer complaints and warranty issues. Currently a Masters candidate in the Industrial Design program at Arizona State University where my focus is on assistive technologies, design history, and material culture studies.

## Qualifications

*HONESTY/INTEGRITY* — high level of professional integrity and strong work ethic demonstrated in my professional and academic performance

*UNIQUE PERSPECTIVE* — able to draw on a variety of skills and talents, including my engineering training, design sensibility, and writing talent

*FLEXIBILITY* — comfortable working either in teams or independently

*FAST LEARNER* — able to take on a variety of new challenges with minimal training or supervision, and able to think on my feet

*RESEARCH EXPERIENCE* — several years of experience with various quantitative methods in addition to my recent involvement with qualitative research projects and workshops

*COMPUTER SKILLS* — familiar with various software packages, including: Microsoft Office, Dreamweaver, Flash, HTML, ASP, Vellum Solids, Adobe Illustrator and Photoshop, QuarkXPress, etc.

## Experience

08.02 | present

*TEACHING ASSISTANT, School of Design, Arizona State University, Tempe, AZ*

- Grade written papers/projects and provide planning assistance (as required) for two courses: History of Twentieth Century Design I & II (IND316/317).

Maintain websites for IND316 and IND317.

08.02 | 05.03

- Grade written papers/projects and provide planning assistance (as required) for two courses: Materials and Processes I & II (IND242/243).

05.03 | 12.03

*RESEARCH ASSISTANT, Arizona State University, School of Design, Industrial Design Human Factors Research Laboratory, Tempe, AZ*

- Assisted in a project to develop a low-cost digital anthropometer.

09.02 | 12.02

*CONSULTANT, BTI Consulting, Tempe, AZ*

- Conducted and coordinated (with ASU) research related to an improved wheelchair securement system for public transit buses.
- Lead writer for a Phase II Small Business Innovative Research (SBIR) Grant through the National Institute of Health (NIH).

05.02 | 09.02

*RESEARCH ASSISTANT, Arizona State University, School of Design, Industrial Design Human Factors Research Laboratory, Tempe, AZ*

- Conducted and coordinated research related to a proposal for an improved wheelchair securement system for public transit buses.
- Research included extensive literature review and ethnographic “field work.”
- Project culminated in the writing of a Phase II Small Business Innovative Research (SBIR) Grant through the National Institute of Health (NIH), which is currently under review.

06.02 | 08.02

*WEB SITE DESIGNER, Arizona State University, School of Design, Tempe, AZ*

- Designed and developed prototype web site for “Image-Music-Object” project ([www.imagemusicobject.org](http://www.imagemusicobject.org)).

01.02 | 05.02

*WEB SITE SUPPORT SPECIALIST, Arizona State University, School of Design, Tempe, AZ*

- Created and supported image hosting web site for History of Twentieth Century Design II (IND317) course.

04.96 | 08.01

*BRAKE SYSTEM ENGINEER, Toyota Technical Center, Vehicle Evaluation I, Wittmann, AZ*

- Coordinated and performed many prototype & competitor vehicle tests requiring extensive instrumentation, test driving, data analysis, and complete reporting.
- Acted as liaison to Toyota Motor Company (TMC), sharing information regarding brake system issues, testing practices, and customer issues specific to North American market.

01.94 | 04.96

*BRAKE SYSTEMS DEVELOPMENT ENGINEER, Kelsey-Hayes Worldwide ABS & Controls Group, Livonia, MI*

- Conducted “Brake Feel” benchmarking investigation for Ford Light Truck group.
- Tested many prototype & competitor vehicles requiring extensive instrumentation, test driving, data analysis, and documentation.

08.89 | 01.94

TEST ENGINEER, Federal-Mogul Corporation, Powertrain Products Operations, Ann Arbor, MI

- Developed and implemented component testing programs (dynamometer and benchtop) for new bearing alloys, one of which resulted in a patented flange bearing design.
- Coordinated engine dynamometer tests and implemented a PC-controlled data acquisition system for dynamometer testing.

### Publications

- “Back to the Future: Recycling the Past Through Retro-Design” *Industrial Designers Society of America National Education Conference* (submitted for publication)
- “Wheelchair Tiedown and Occupant Restraint Systems in the Real World and the Virtual World: Ethnography Meets Computer Simulation” *Assistive Technologies Journal* (submitted for publication)
- “Jens Risom’s Scandinavian Style” *Modernism* (12.03)
- “A Fare to Remember: Design Research Findings Related to Wheelchair Securement on Large Transit Buses” *Industrial Designers Society of America National Education Conference* (06.03)
- “The Role of Ethnographic Research in Designing a User-Friendly Wheelchair Tiedown and Occupant Restraint System” *Rehabilitation Engineering Society of North America (RESNA) Annual Conference* (06.03)
- “Have Gym Bag, Will Travel” *Muscle Media* (06.00)

### Education

- Masters candidate — Industrial Design, Arizona State University (beginning Fall 2001); course work includes basic rendering, design history, qualitative research methods, ethnography, reverse engineering, materials/processing, statistics (descriptive and inferential), material culture, human factors, and design theory.
- B.S. Mechanical Engineering, Cum Laude Graduate, University of Detroit, 1989.

### Honors/Awards

- Member of Tau Beta Pi, National Engineering Honor Society.
- Invited to make “Interactive Poster Presentation” at the Rehabilitation Engineering Society of North America (RESNA) annual conference. Topic: “The Role of Ethnographic Research in Designing a User-Friendly Wheelchair Tiedown and Occupant Restraint System” (06.03)
- Recipient of the Earl and Ellen Davis Scholarship for academic achievement (05.03)
- Recipient of Graduate and Professional Student Association scholarship (07.03)
- Recipient of Graduate and Professional Student Association thesis research grant (09.03)
- Third Place winner Design Excellence Awards (03.04)

### References

References will be furnished upon request.