

Objective

To apply my experience in human factors, software engineering, and education to design interfaces that are efficient, safe, and enjoyable for people to use.

Experience Highlights

Human-Computer Interaction

- **Unmanned Systems Displays** – Designed displays to optimize situation awareness and usability for soldiers based on system requirements, contract standards, and usability findings; updated support documentation.
- **Mission Control Center Command Displays** – Explored human factors requirements in complex control environments, reviewed user concerns, developed software, and inspected code changes.
- **Keyboard Efficiency Strategies** – Analyzed research data and collaborated on a paper for the Human Factors and Ergonomics Society (HFES) 2009 Annual Meeting.

Usability Testing and Research

- **Online Statistics Textbook** – Utilized survey results to overhaul site to improve usability and enhance user experience. Collaborated on a paper for the International Conference on Teaching Statistics (ICOTS) 2010 Meeting.
- **Prescription Labels Project** – Identified common reasons for accidental poisoning; surveyed users about label experiences; designed two potential solutions; tested designs; presented results.
- **Dell Laptop Redesign** – Surveyed and interviewed users to identify user issue of accidental contact with touchpad when typing; designed, built, and tested a prototype to solve problem.
- **NASA Flight Controller Interview** – Initiated user interview with flight controller to identify usability improvements in Mission Control displays.

Leadership and Facilitation

- **Co-President of Internal Affairs** – Structured the first HFES Student Chapter at UHCL.
- **Six Sigma Greenbelt Trained** – Completed training and facilitated three brainstorming activities.
- **Safety Committee Representative** – Presented information and performed inspections to maintain team safety.
- **Algebra Teacher** – Instructed 90 ninth-grade students in algebra.

Employment

- **Software Engineer**, GHG Corporation (April 2011 – Present)
- **Research Associate Intern**, SA Technologies, Inc. (January 2011 – March 2011)
- **Software Engineer Associate**, Lockheed Martin (November 2007 – September 2010)
- **Software Engineer Intern**, GHG Corporation (June 2006 – October 2007)
- **Algebra Teacher**, Brenham Independent School District (August 2005 – May 2006)

Education

- **M. A. Applied Cognitive Psychology**, University of Houston-Clear Lake (May 2011)
- **M. Ed. Curriculum and Instruction**, Texas A&M University (August 2006)
- **B. S. Computer Engineering**, Texas A&M University (December 2004)

Honors, Awards, and Affiliations

- UHCL General Psychology 2010 Graduate Student of the Year, NASA Certificate of Appreciation, Best Student Poster (2009 Houston HFES Annual Symposium), STA Peer Award.
- Human Factors and Ergonomics Society (HFES), Houston HFES, HFES Student Chapter at UHCL