

Anne Gray

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Summary

Energetic self-starter with excellent written and verbal communication, team participation and meeting facilitation. Systems design and requirements engineering experience includes user interviews and profiling, contextual inquiry, task analysis and modeling, information architecture, flow diagrams and other UML, visual design, prototyping, usability studies, and literature reviews. Excels at domain knowledge capture and systems analysis.

Education

M.A.Sc. University of Waterloo, 2002 Systems Design Engineering
B.A. Grinnell College, 1996 History

Clearance

Citizenship: U.S.
Security Clearance: Secret (debriefed March 2010)

Related Experience

- Sep 2012-July 2014 Detcon1 IT Team Manager, Web and Print Promotions**
Needs analysis, content production and layout for marketing and informational resources in print and online at detcon1.org. Managed a team to provide on-time delivery of both back-end and attendee-facing mission-critical tools and systems for the North American Science Fiction Convention. Facilitated diversity efforts for highly successful event in Detroit, MI.
- Jan 2009-Mar 2010 Applied Research Associates, Klein Associates Division Human Factors Engineer**
Cognitive Systems Engineering. Interface and user study evaluation and analysis for submarine control systems; requirements analysis and interface design for a wearable heads-up display, tactile and gestural user interface for command, control, and coordination of dismounted infantry. Onsite interviews and observations documented in graphs, charts, and reports. Supported internal team coordination and knowledge capture. Wrote research proposals, presented papers and represented the company at conferences.
- Oct 2007-Jul 2008 Electrodynamic Applications Research Engineer**
Designed and implemented control system and experiments as technical lead for research requiring 3D motion inside a vacuum chamber. Developed requirements with client, documented system, oversaw installation at client site. Wrote and edited proposals.
- Jan 2005-Dec 2007 Soar Technology, Inc Human Factors Engineer**
Cognitive work and systems analysis, usability, and interface design for intelligent and adaptive command and control systems, intelligence analysis support, diplomatic training software, others. Defined software requirements for agile development team researching operation of heterogeneous teams of unmanned vehicles (UAVs and UGVs). GOMSL task models developed as reference for adaptive system. Executed and performed qualitative and quantitative analysis on user study.
Wrote and edited proposals, managed web design team for corporate site.
- May 1999-May 2002 The University of Waterloo Research Assistant**
1999-2002 Research Assistant
Developed innovative information display design for quantitative Electromyography software to aid transition to clinical use. Reduced diagnostic error rates over 30%.
Fall 1999, Fall 2000 Teaching Assistant, *Introduction to Systems Design Engineering*
Taught design process, teamwork, hierarchical analysis and functional specification, visual communication, drawing and AutoCAD.
Spring 2000 Teaching Assistant, *Biomedical Engineering*
Summer 1999 Research Assistant; redesigned user interface for course design software.

Publications

- Argenta, C., Murphy, A.¹, Hinton, J., Cook, J., Sherrill, T., Snarski, S., “Graphical user interface concepts for tactical augmented reality” in *Head- and Helmet-Mounted Displays XV: Design and Applications*, edited by Peter L. Marasco, Paul R. Havig, Proceedings of SPIE Vol. 7688 (SPIE, Bellingham, WA, April 5, 2010) 76880I.
- Fallon, C. K., Murphy, A. K. G., Zimmerman, L., Mueller, Shane T., “The Calibration of Trust in an Automated System: A Sensemaking Process,” International Symposium on Collaborative Technologies and Systems (CTS), May 2010.
- DeKoven, E., Bechtel, B., Zaiantz, J., Lisse, S., and Murphy, A.K.G. (2006). “Delegating Responsibilities in Human-Robot Teams,” *Unmanned Systems Technology VIII: Proceedings of the SPIE Defense and Security Symposium*, Vol. 6230, Grant R. Gerhart, Charles M. Shoemaker, Douglas W. Gage (Eds.); Orlando, FL: SPIE Press.
- DeKoven, E. and Murphy, A.K.G. (2006). “A Framework for Supporting Teamwork between Humans and Autonomous Systems,” Command and Control Research and Technology Symposium (CCRTS06), San Diego, CA, June 20-22, 2006.

¹ Anne Gray has been published as Anne K. Gay (maiden name), Anne KG Murphy (1st married name), and Anne K. Gray.