

Jesse Charles

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OBJECTIVE:

To combine skills from the studies of Communication, Computer Technology, and Anthropology in order to analyze and improve the design of products and processes that exist in areas where human behavior and technology overlap.

EDUCATION:

2003 - Dec. '09, Purdue University, BA Communication, Minors: Anthropology, Religious Studies - 2.92/4 cumulative GPA

General Communication curriculum focused on interpersonal and mass communication theories, Rhetoric, and communication technologies. Anthropology coursework provided a basis for holistic, ethnographic views of human behavior. A research project on LCD Television "greenness" and a community service project to design an adaptive learning device provided excellent interdisciplinary experience, primarily working with materials science, electrical or computer engineers.

1996-2002, Purdue University, AS Computer Technology - 2.4/4 cumulative GPA

Telecommunication and Networking Technology studies and general Technology curriculum consisting of coursework in packet switching networks, object-oriented programming (Visual Basic), database fundamentals, circuit design/analysis, technical speaking, organizational leadership, and others. One memorable project was writing an MP3 ID3 tag editor.

EMPLOYMENT:

2001-Current, Purdue University, Distance Learning Computer Technologist

Assisted faculty and staff in the development and management of content for departmental website and WebCT/Blackboard courseware applications while providing technical support for departmental staff and 200+ purely distance students per semester. Served as liaison between faculty and on-campus computing departments.

1996-2001, Purdue University, Computer Support Specialist

Provided technical support for 400+ windows 3.1, 95, 98, NT, 2000 and XP, UNIX and Macintosh users. Advised software and hardware migration paths. Supervised and trained student workers.

PROJECTS:**EPICS – Interdisciplinary Engineering:**

EPICS is a unique program in which teams of undergraduates are designing, building, and deploying real systems to solve engineering-based problems for local community service and education organizations. I participated on the GLASS-AT team, which creates hardware, electromechanical and software solutions which enable students with disabilities ages 3 to 21 to function more independently and to enjoy a better quality of life. This includes projects aimed to accomplish daily living tasks, assist with communication or to help participate in educational or recreational activities. I worked on user interface and casing design for iPad, a microcontroller based Speech Generation Device designed to teach the value of communication by help children with Autism externalize their thoughts.

Research Project – LCD Television Recyclability and Human Recycling Behavior:

In cooperation with the Electronics Take Back Coalition I was a part of an interdisciplinary team charged with investigating issues surrounding the “green-ness” of LCD televisions. Using existing research, team laboratory experiments and site visits, I authored an annotated bibliography and companion paper covering the implications of the post-consumer life of LCD televisions. In the paper I generated a holistic view of the situation from materials used in manufacture, through consumer behaviors, to product post-life and also presented ideas that could help to attenuate negative factors by promoting recycling behavior, encouraging greener product design, encouraging proper e-waste handling and increasing government influence on these issues.

PDF downloads:

http://www.jcharles00.com/GreenTV/LCD_Recyclability.pdf

http://www.jcharles00.com/GreenTV/LCD_Recyclability-AnnotatedBibliography.pdf

ADDITIONAL INFORMATION:**References:**

Carla Zoltowski – EPICS Education Administrator, Purdue University

Kory Cooper – Assistant Professor, Department of Anthropology, Purdue University

Awards:

Best Presenter – EPICS GLASS-AT, 2009

Formal Presentations:

iPad – ICAMES 2009, Boğaziçi University, Istanbul Turkey (Powerpoint file available upon request)