Team-Based Design: Collaboration across Time and Space

Daniel P. Siewiorek
Carnegie Mellon University

Director, Human-Computer Interaction Institute
Professor, Electrical and Computer Engineering
Buhl University Professor of Electrical and Computer Engineering and Computer Science

Abstract

Rapid advances in mobile computing and wireless communication present an opportunity for fundamental changes in engineering education, particularly for team-based courses in which collaborative learning is the dominant learning mode.

This talk describes a collaborative, multi-disciplinary design course and a suite of collaboration tools called Handy Andy, to support team based design. The current platform for Handy Andy is a Hewlett Packard Jornada handheld computer communicating via Lucent WaveLAN cards over Wireless Andrew. The results of some preliminary user testing with Handy Andy will be presented.