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The following were results were provided on **12/21/2011 at 12:47:2 PM:**

Abstract ID: 11038

Title: Leveraging Mobile Technologies to Revolutionize Navy Non-Resident Training Courses

Subcommittee: Training

Abstract Text: Navy Non-Resident Training Courses (NRTCs) are self-study, enlisted training courses that are used to learn and advance in a Navy occupation, or rate. Until recently, these courses involved studying a text-based training manual and taking the associated test. The release of Adobe Acrobat 9 in 2008 brought a host of new capabilities that enabled development of Level 3-interactive PDFs with user-controlled animations, audio, videos, 3D images, and graded assessments with bi-directional remediation. With their media-rich content and engaging interactivity, the new NRTCs were well received by both the client and the end users. However, producing the product was only half the battle. To meet the training needs of today's Sailor, the product had to play on mobile devices.

Hand-held mobile devices, such as smartphones and tablets, have become a common technology. For many young people, including the Soldiers, Sailors, Airmen, and Marines of today's military, hand-helds have taken the place of desktops. Not only are they lightweight and portable, but they are also capable of supporting a wide variety of applications that touch every aspect of life. However, they are still a relatively new technology; and in the race to build new products to increase market share, corporations have produced devices with widely varying capabilities and support for the interactive features of the NRTCs.

This paper reports an ongoing project to leverage the capabilities of mobile technologies to field Level III-interactive NRTCs on hand-held devices. It describes challenges encountered, optional solutions proposed, technical breakthroughs achieved, and a conversion tool under development. The benefits are considerable: By providing service members anytime/any place access to highly interactive, media-rich training, mobile technologies can be used to prepare our highly mobile, expeditionary forces and thereby secure the future of our country.

Will this paper have one or more authors from outside the U.S.? No

Discussion Points:

1. mobile
2. hand-held
3. training
4. smartphone
5. tablet

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Biography:

Jo MacDonald is a senior instructional designer for General Dynamics Information Technology with over 22 years of experience in all aspects of instructional systems design. Her experience in technology applications for education and training include the design and development of PC-based simulations, Web-based training, interactive multimedia instruction, educational videos, and standardized tests. Ms. MacDonald is passionate in her dedication to excellence and committed to ensuring that the focus of technology is always on maximizing learning.

Status: APPROVED

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Title: Leveraging Mobile Technologies to Revolutionize Navy Non-Resident Training Courses

Primary Author: MacDonald

Committee: Training

Training: The application of technologies and integration of systems into training system solutions.

This subcommittee is focused on practical concepts and technologies applied at the training systems level. Typical topics include tools, integration techniques, and innovations relating to interoperability, crew coordination, collective team training, legacy system upgrades, and after action review (AAR) support. Emerging areas of interest include application of training systems to test and evaluation and vice versa, embedded and deployable training, and assessment of technology-enhanced training effectiveness. Lessons learned documented with complete quantifiable data are encouraged. The subcommittee is interested in all phases of training system evolution: analysis, planning, development, deployment, and life cycle support.

Evaluation

Substance. The controlling idea and the support for it. The total concept the author wants to present. A good idea can survive mechanical flaws, but perfect spelling and grammar can't save poor ideas.

Originality. A new concept that furthers the evolution of the committee's subject area. A repeat of past theories that add nothing to the community of knowledge are generally unacceptable, unless the prospective abstract/paper promises to impart knowledge that may be of substantive value to a novice audience.

Acceptance

Accept Reject Discuss Sales Pitch Similar Abstract
International Abstract (Specify ID Ref No.) Transfer to

Key Words or Concepts

Other Comments/Remarks