



PROGRAM EXECUTIVE OFFICE FOR
SIMULATION, TRAINING & INSTRUMENTATION

STEM Education for the 21st Century: Army Training and Simulation

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Approved for Public Release.
Security and OPSEC Review Completed: No Issues.

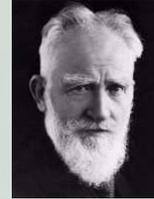
EECS Industry Day
April 24, 2009

		Important Technologies				
Tech		Games	HPC	IT	Web 2.0	Medical
Description		<p>Visually rich applications to teach tactics and teamwork.</p> <p>Accessible to many more soldiers.</p> <p>Leverage 3D, GUI, Physics Models, AI, and Networking</p>	<p>Create a real-time interactive HPC capability. Put real power on the server-side of our training simulations.</p>	<p>Training simulation delivered to every soldier's desktop via browser or similar generic client. Requires combining Simulation applications and IT.</p>	<p>Networked collaboration tools for creating simulation databases by distributed participants.</p> <p>Wiki, Blog, Social Networks, Google Docs, YouTube, etc.</p>	<p>Creating training environments for healing wounds, rather than creating them.</p> <p>Using mannequins, synthetic wounds, computer games, and cards.</p>
Relationship with UCF		<ul style="list-style-type: none"> •UCF FIEA expertise will be directly applicable to future training systems. •Open discussions with CMU ETC, USC GamePipe, and Full Sail Research 	<ul style="list-style-type: none"> •Partnership with UCF IST on Stokes machine •Actively involved in bringing the money to IST and in seeking project support. 	<ul style="list-style-type: none"> •IT is the delivery mechanism for CS. •Renew our participation in UCF MIS Industrial Board 	<ul style="list-style-type: none"> •No projects started 	<ul style="list-style-type: none"> •Emerging partnership with UCF Medical School and medical M&S companies. •Sponsored Combat Medic card game with UCF IST.
Action		<p>Connect FIEA to EECS programs</p>	<p>Explore interactive jobs on HPC</p>	<p>Cross lines between EECS and Business/MIS</p>	<p>Not aware of any university work in this area</p>	<p>Partnerships with UCF Medical School</p>



Vision & Innovation

- “The reasonable man adapts himself to the world; the unreasonable one persists in trying to adapt the world to himself. Therefore all progress depends on the unreasonable man.”
 - ❖ *Man and Superman*, 1903, George Bernard Shaw
- “Where there is no vision the people perish.”
 - ❖ Proverbs 29:18



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GAME TECHNOLOGY

HIGH PERFORMANCE COMPUTING

MEDICAL

IT ARCHITECTURES

CTO
CHIEF TECHNOLOGY OFFICER

LASER SENSITIVE MATERIALS

TRAINING SYSTEM EFFICIENCY