tech "Young people entering the military are computer literate and grew up playing videogames." — military adviser Raymond F. DuBois

## Role play answers roll cal

## U.S. Army trains with vids, games

By DAVID S. COHEN

rom the rise of Nazis to Vietnam and beyond, Hollywood and showbiz have lent their talents and skills to the

war effort of the day.

Today, all-out flag-waving movies are scarce. Yet the military arguably gets more help from showbiz nowadays than ever. Armed forces around the world, especially the U.S. Army, are using advanced technology from entertainment, particularly videogames, to help train per-

sonnel and, say some, save lives.
"About 10 years ago, the
Army realized that computer
technology and computer simulation was something they'd better start paying a lot of at-tention to," says Raymond F. DuBois, senior adviser of the Center for Strategic and Intl. Studies.

DuBois says such simulations work in two ways: First, they can put a soldier, a helicopter pilot or a tank commander in battlefield situations, "That's



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coupled with the fact that the young people entering the military are computer literate to an enormous extent and grew up playing videogames," he adds.

Embracing game tech in addition to field training was an adjustment for many in the armed forces. But graphics have simply become too good to ignore.

The Army even has an office dedicated to "harvesting" such entertainment tech: The U.S. Army Program Executive Of-fice for Simulation, Training and Instrumentation, or PEOSTRI. The office is located in central Florida — not coincidentally, in the vicinity of Disney World —

which has become one of the world's centers for virtual realitv tech.

Roger Smith, chief technology officer for PEO STRI, tells Variety the Army has found great success in modifying off-the-shelf vidgames for training.

We'll license them and give them a makeover so they have a different face. So instead of an alien soldier walking around with a phaser gun, it's a U.S. soldier walking around with stan-dard-issue weapons."

Some games that have been repurposed and renamed: "Unreal" became two simulations, "America's Army" and "Tactical Iraqi"; "Operation Flashpoint" became "Ambush"; and "Far Cry" was turned into "IEWTPT

Tactical Questioning."
Sometimes, though, a game s built with the Army in mind, then sold commercially.

The Army cooperated with Sony Pictures Imageworks game developer Pandemic Stu-dios on "Full Spectrum War-rior," investing \$4 million. The game was a hit with con-

sumers but was less successful as a training tool, and the Army was shut out of the profits Watchdog groups complained it was a waste of tax money.

Repurposing a game can cost from \$150,000 to \$500,000, depending on how much of the original software is usable by the Army. In fact, says Smith, an entire

in fact, says smith, an entire industry has grown up around delivering game-based products to the military.

Eric Haseltine, a former chief technical officer who worked in

the U.S. Intelligence community and is now president of Haseltine Partners, notes this exchange of knowledge and technology — dubbed by some as "the Entertainment Military"

as 'the Entertainment-Mintary Complex"—has gone on behind the scenes for years. "Silicon Graphics was a per-fect example," he says. "They had as much business with the military as they did with enter-tainment."

Haseltine notes the entertainment biz and the military have different concerns, so sometimes the tech they share must be adjusted.

Entertainment needs to look

realistic, even down to hair and clothing. "Those kind of exquisite details don't matter in the military world," he says. In-stead, the military wants to know "How many moving ob-jects can you (handle) at the same time? What kind of physics can you calculate? And, above all, what does the whole thing cost?"

A military or commercial flight simulator need not have perfect visual detail, but it had better mimic the behavior of the real vehicle, Haseltine says, because lives are at stake.'

PEO STRI's efforts extend to the Los Angeles area; the of-fice spent \$50 million to set up USC's Institute for Creative Technologies, which goes be-yond virtual reality tech and taps into Hollywood's storytelling expertise.
"We refer to them as cogni-

tive training systems," tive training systems, says Kim LeMasters, creative direc-tor for the ICT. "We're trying to train the brain."

The ICT recently was asked

to create a mobile, interactive training system to teach sol-diers how to defend themselves



Computer game BitAT is used to leach negotiating skilfs.

against roadside bombs — or, in military parlance, improvised explosive devices (IEDs).

Rather than deliver a noninteractive training video that would likely bore 18- 20-year-olds, the ICT created a story told from the p.o.v. of two characters: the bombmaker and a young soldier who had just survived an IED attack.

"To make this a compelling experience, you have to hook 'em," says LeMasters. "You have to have a story."

## Device would zap pirate camcorders

TORYO White increased vigilance and harsher penalties have yet to put a major dent in film piracy, a little bit of high-tech know-how just

may do the trick. Isno Echizen of the National Institute of Informatics, in cooperation with Sharp, a leading Japanese electronics maker, has devised a technology for failing camearder p rates at the theater, NH has announced.

Special near-infrared LEDs are set up behind the movie screen and turned on while a film is playing, beam-ing light through tiny holes in the screen. Pirates who recomthe nic with camporders or

Near-Intrared cells amour video with light invisible to the live addience. other devices end up with an image spattered with red and green blotches. Vicwers in the theater see nothing, since the light emitted by

the LEDs is not in the range of the human vi-Sharp aims to commercialize the technology within two or three years:

The Motion Picture Producers Assn. of Japan, or. Eiren, estimates that pirates have trimmed 10%, or \$220 million, off the \$2.2 billion an nual local B.O., while taking a similarly large chunk from the DVD biz. And pirates have been steadily improving the quality of their images with better equipment.

Eicen-affiliated theaters now run abota before every screening warning camourder pirates of possible fines and prison sentences, but results

have not yet lived up to expectations. But there's no doubt blotchy copies would