

Santa Barbara, April 2007

Engineers Sharpen Their Skills, Virtually

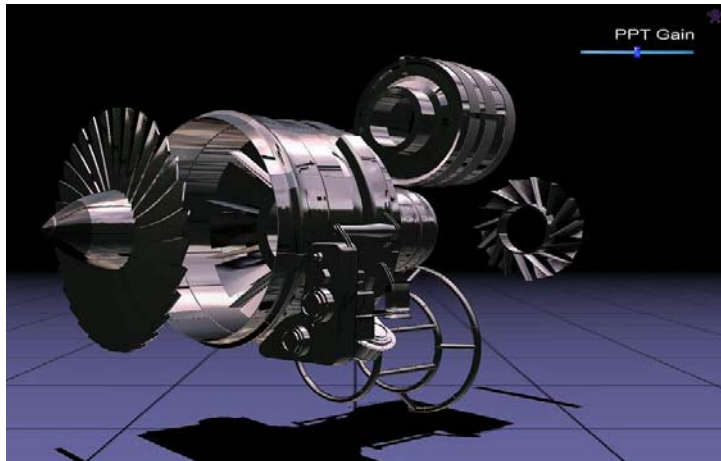
Application: Mechanical engineering training simulation

Equipment Used: WorldViz Vizard 3D software toolkit, NVIS nVisor SX HMD, WorldViz PPT X4 optical tracker, InterSense InertiaCube2, 5DT 14 Sensor Data Glove



At the IEEE Virtual Reality Conference 2006 in Alexandria, Virginia, March 25-29, WorldViz in partnership with NVIS demonstrated an aircraft turbine assembly simulation. The demonstration was built with and rendered by the Vizard 3D toolkit, made by WorldViz.

Users trained assembling and disassembling parts of an aircraft turbine in real-time, wearing a 6DOF tracked 5DT 14 sensor data glove. Robust and jitter-free optical/inertial wide-area tracking provided by the WorldViz PPT X4 system and the InterSense InertiaCube allowed



users to not only explore the virtual environment by naturally moving around within the simulation, but manipulate the turbine from any viewpoint.

Either immersed in the simulation by donning the 6DOF tracked high-resolution stereo NVIS nVisor SX head-mounted display, or by viewing the simulation on a large screen, booth visitors were offered insight into the possibilities and cost benefits of virtual training.