

VR DEVELOPMENT LAB

Educational Virtual Reality Authoring Studio

- *Online & Offline Education*
- *Curriculum Development*
- *Game Design*
- *Visualization*
- *VR Tour Walkthroughs*
- *Enviromental & Spatial Technologies*
- *Virtual Field Trips*

The future of education placed in the hands of your students... virtually.

**FREE HOSTING PORTAL
FOR
VIRTUAL TOURS!**

A POWERFUL TOOL FOR STUDENTS

Visualize the classroom of the future, where students from around the world learn by sharing and creating a virtual educational environment. Utilizing technology, students will explore places that they have only imagined, communicating and interacting with other students to support their journey and exploration. Prior to the Virtual Reality Development Lab (VRDL), the virtual experience has been unobtainable and unsynchronized with modern educational initiatives. With the release of VRDL, not only is the virtual experience available to students - but they can create it themselves! VRDL is the fusion of cutting-edge virtual technology with the commitment to exceptional and thought-provoking education.



GROUND BREAKING

Education research indicates that traditional, lecture-based learning does not adequately develop the technological or problem-solving skill set that the modern student necessitates. VRDL was created to respond to this challenge and modern student apathy, by incorporating the most modern virtual reality technology on the market with educational environments and paradigms. In kids speak, it's "cool", to educators, it's "ground-breaking", developing skills and interests for a lifetime of learning.

"... an innovative, engaging, and exciting virtual reality system developed by Digital Tech Frontier ... makes virtual reality (creation and exploration) available in the classroom, offering endless possibilities for the future of education."

-Tim Stephenson
National Project
Director
East Initiative



COLLABORATIVE LEARNING

VRDL provides students with all of the tools that they need to produce their own virtual experiences, presentations, and tours. This includes hardware, software, and instructional manuals needed to move each project from brainstorming and planning through completion. *Note: imagination, creativity, and inspiration to be supplied by students.*



FULL-IMMERSION EXPERIENCE

VRDL empowers students with the toolbox to develop virtual environments that are 3-dimensional and photo-realistic. By utilizing a light-weight head-mounted display, students experience a 360-degree environment that feels “real” to the senses. This head-mounted technology, coupled with a motion-sensing tracker, transports the students to a virtual environment of their creation and choosing. To date, VRDL has already fully developed full-immersion experiences for such educationally rich places such as Mesa Verde, Machu Picchu, and the Hoover Dam. Whether the students immerse themselves in these existing places, or create new places of their own, their experience will be engaging, exciting, and thought provoking.

VRDL creates a forum for students to learn, plan, and work collectively in a group setting. The instructor or facilitator guides students in developing subject areas, guidelines, timelines and goals. Students create their virtual tour within the parameters of the instruction and incorporate research and fact-based learning. Class-based responsibilities often include researching information, gathering and creating media, and photographing key locations for the panoramic environment. Thus, VRDL creates an educational synergy of instructor, student, and group participation.

“...the East Initiative feels the DTF’s virtual reality system provides the opportunity to expand EAST students’ potential for engaging and sophisticated projects and would suggest that any EAST lab that wants to enhance its offerings consider this system as an option.”

*-Tim Stephenson
National Project
Director
EAST Initiative*



1 CAPTURE

The process of creating virtual environments with VRDL is simple. Students can move through the experience individually or within a group. All supporting material and tutorials are included.

VRDL's diversity shines with the ability to adapt and integrate with a plethora of media types. Use the media resources and incorporate content into your virtual tours.

Hemispherical Photos / Stills



Use the camera and the fisheye lens to take 2 or 3 pictures of your surrounding environment. Take off the fisheye to capture stills of people or objects for slideshows and 3D objects.

Digital Video



Capture videos of friends, family, documentaries, reports, and interviews from the area.

VR 3D Objects



Use the camera to take several pictures around an object to create a rotating 3D object. Great for jewelry, artifacts, and statues.



Voice Overs / FX's/ Music

Create sound FX, voice overs, and music to add life to your tour.

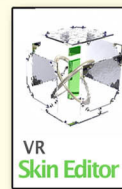
2 CREATE

Stitch Hemispherical



Stitch together the fisheye images you took with the High-Res Digital Camera (included) to create one large panoramic image.

Create Custom Skin



Use Skin Editor to create a custom interface for your virtual tours or use a variety of already made backgrounds, buttons and skins.

3 PRESENT

Present your project in a multitude of mediums.

Virtual Reality / HMD & Cyber Glove



Present your project in the virtual world with head tracking and head mounted displays. Couple it with a laptop for a powerful and portable presentation tool.

Monitor / Mouse



Present your ideas on a laptop or any desktop system available to you. Versatility and cross compatibility are some of VRDL's strongest features.

Large Screen Projection / Smart Board



Showcase your projects on a large - format medium to create impact and a lasting impression. Use a smart board to interact with your tour.

Add Interactive 2D and 3D Map



Create a graphic map with multiple layers of the area with a radar to help orient your viewer in the tour, and include clickable Hotspots to jump to any part of the Virtual Tour.

Create Tour and Publish



Use Show to bring all the elements that you captured and created together. Convert your Stitched pictures into 360° panoramas. Add your sound and video, and create your VR Objects. Produce online and offline tours in Flash, Java, Quick-time or e-mail ready exe.

FREE HOSTING PORTAL!

Post your work on the world wide web to share with other schools, students, and facilitators. Projects can be viewed at anytime by anyone.



INCLUDES



CAPTURE

Hardware



CREATE

Software



NEW!

PRESENT

VR Package

"Its immersive environment makes it unique... Its good for kinesthetic learners and a lot of kids are helped out by the audio visual components."

-Mike Tourtrice
Teacher Tempe High School

VR Studio - Lite

VR Cyber-Glove Interface Device
 360° 8mm Fisheye Camera Lens
 360° Lens Adapter
 360° Incremental Rotator
 Tripod 3 Axis Leveler
 Camera Tripod
 High Resolution Pro Digital Camera
 Camera Battery Charger
 1 GB Smart Card Flash Memory
 Smart Card Reader (USB)
 Weatherproof Consolidation Case
 Comprehensive 200 Page Instructional Manual

VR Stitcher Software
 VR Skin Editor Software
 VR Floor Plan Software
 VR Show Software
 VR Sampler Software

Machu Picchu - Virtual Vacations™
 Mesa Verde - Virtual Vacations™
 Hoover Dam - Virtual Vacations™



VR Studio - Upgrade 1

All Software Is Pre-installed & Registered
 Laptop Fits Inside VRDL Studio Case
 Intel Core 2 Duo Processor
 14.1" WXGA TFT
 3 GB DDR-SDRAM (DDR@-667, 2GB + 1 GB)
 Wireless LAN (802.11 a/b/g/n)
 MOTION EYE Camera
 Bluetooth Technology
 Integrated Biometric Finger Print Sensor
 250 GB Hard Disk Drive
 DVD+-R DL_DVD+-RW_DVD-RAM Drive
 Standard Capacity Lithium-ion Battery (BPS9\S)
 Microsoft Windows Vista extra space need to be deleted



VR Studio - Upgrade 2

This Laptop Is Both Touch/ & Tablet PC
 All Software Is Pre-installed & Registered
 This System Also Fits Inside The VRDL Studio Case
 13 Inch XGA Display 3.2 lbs
 1.2GHz Processor
 512Mb Of SdRAM & 40GB HDD
 Gigabit Ethernet
 802.11 a/b/g & Optional Bluetooth



Presentation Option 1

VR Head Mounted Display Glasses
 HMD Spacial Tracking Device
 VR Player Software For Quicktime
 VR Cyber-Glove Interface Device



Video Training Package

Includes: Step by Step Screen Capture Tutorials
 Introduction To Virtual Tours
 Panoramas
 Slide Shows & Photo Albums
 Video, Help Files, & Company
 Maps/Floorplans & Hotspots
 Publishing A Virtual Tour
 Using the Hosting Service & Tools
 VR Spinning Objects



Software Site License & Personal Portal

Access to Portal & Posting of VR Tours
 Site Licence VRDL: Online Vista Show & Stitcher Cloud Server
 {Up to 20 seats or 500 MB}