

# **PBS announces the grand prize winner of its NOVA “Making Stuff” Contest**

Congratulations to Wayne Reed Porter from Phoenix, AZ.

Wayne’s Winning Essay: *The Telereader Terminal:*  
**TOMORROW’S HUMAN-COMPUTER INTERFACE**

As personal computers evolve, we’ll see a major change in how data is delivered to the user. Most of tomorrow’s personal computers will be screenless. Visual data will be projected directly onto the users’ retinas by six to twelve tiny laser diodes. Half of the diodes will project data into the user’s left eye – the other half to the right eye.

**Below are some of the advantages of retinal projectors:**

LOWER POWER REQUIREMENTS The two arrays of diodes will require only a few millionths of a watt to deliver their images to the user’s eyes.

HIGHER RESOLUTION IMAGES The pixels in the images projected by the diodes can be made much smaller than is possible with any CRT or flat panel display.

GREATER PORTABILITY The combination of diodes, lenses, and processing components will weigh only a few ounces.

WIDER ANGLE OF VIEW Retinal projectors can provide a wider field of view than is possible with display screens.

MORE ACCURATE COLOR By modulating light sources to vary the intensity of red, green, and blue light, retinal projectors will provide a wider range of colors – and more fully saturated colors.

GREATER BRIGHTNESS AND BETTER CONTRAST Retinal projectors can provide higher levels of contrast and brightness than any other display technology.

ABILITY TO PRESENT 3D IMAGES The super-high-definition image-pairs delivered by retinal projectors will provide users with highly realistic stereoscopic movies and still pictorial images.

(Wayne’s contest entry was an abbreviated version of his Web page “Tomorrow’s Screenless PC,” which is available at the following URL:

<http://mudoc.com/screenlesspc.htm> )