## Key Search Terms

Augmented Reality

4-Dimensional

AR

Virtual Reality

Epson Moverio

Interactive Reality

IR

4D

### Information Technology

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# Augmented Reality



*Zane Bennett*

## Educational Applications

Augmented reality devices are already used in a number of professional military and medical fields. 4D reality images like the one above are not only interactive with students and professors, they provide a detailed hands-on experience without the costs of physical equipment. Augmented reality is immune from accidental drops of models or loss of parts.

<u>Applications developed for augmented reality devices include:</u>

- Interactive human bodies for analyzing different body parts and segmenting them apart

- 4D models of individual body parts, their names and functions through the use of a single sheet of paper to anchor the body part.

- Instructive models of engines, aircraft carrier pieces, hardware, and other technology with detailed visual guides on assembly and creation.

- Visual lectures without the requirement of physical screens, which make it easier for lectures to be pushed to students on the go or for lectures to be given remotely .

- Star charts that overlay over actual stars upon viewing the sky, giving detailed astronomical information in real time.

<u>Available Hardware Models:</u>

Google: Glass

Microsoft: HoloLens

Epson: Moverio

Sony: SmartEyeglass

Vuzix: Wrap

Meta: Meta1

Atheer Labs: AiR

Additionally, most smart phones are compatible with Augmented Reality devices.



*Benjamin Li with the Valdosta State IT Helpdesk displaying the proper use and wear of the Epson Moverio.*