

ProceduAR: An augmented reality-based tool to create in-situ procedural 3D AR Instructions

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Categories:

- Computer Technology

Keywords:

- Application
- Augmented Reality
- Computer Technology
- Employee Training
- Skills Gap
- Software

Researchers at Purdue University have developed an all-encompassing Augmented Reality (AR) procedural training application. The application combines AR and computer vision to easily create procedural training programs then allows the student to use the created AR content to follow the steps to perform the task. This software could be a low cost solution for companies wanting to better train their workforce. Skilled workers are the lifeblood of economies around the world and there is a critical need for better training platforms to close the skills gap. With retirees outpacing new employees in the industrial and manufacturing spaces, new employees often are not trained sufficiently enough by their senior staff. These new employees are often given paper instructions or videos on how to perform their niche activities, which can be a dismal learning experience. The Purdue user friendly procedural training AR system gives better learning outcomes than traditional paper/video instructions. This application offers the added benefit of automatically detecting tools in the real world and integrating them within the AR environment. This application has been verified to assemble an engine, repair a bike, and build a shelf.

Advantages:

- Faster AR Authorship
- Easier AR Authorship
- Closing the Skills Gap

Potential Applications:

- Augmented reality
- Job Training

People:

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Intellectual Property:

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Type: Utility Patent

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