

## In-Situ Training for Aircraft Carrier Sailors using Augmented Reality

4 February, 2013

Patrick Ryan
Project Manager, Technology

### Newport News Shipbuilding





#### History of VR in Shipbuilding



- Newport News has been a leader in Virtual Reality for decades
  - 3D CAD was used for ship design at NNS as early as 1979
  - 4,600 employees in Engineering and Design have access to these tools
  - CVN78 was designed entirely in a virtual environment
- CVN78 Class Design is the largest purpose-built product model in existence
  - 3,000,000 uniquely modeled parts
  - 130 tracked attributes per part



#### Use the PLM for Sailor Training



- New uses for the CVN78 Model are valuable for the nation
  - There are many valuable use-cases
  - Typically they have an interface challenge
- Augmented Reality is an interface solution
- A valuable use-case is training, but specifically, in-situ training
  - VR may be better suited to training centers
  - AR delivers information aboard CVN78 at the right time and place

Let me show you what that might look like...



# Newport News Shipbuilding