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Applied Industrial Augmented Reality

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Applied Industrial Augmented Reality

CS322 | Team members: Eric Brown, Riley Hanson, Casey White | Faculty adviser: Dr. Dahlberg | Sponsor: Newport News Shipbuilding | Sponsor adviser: Patrick Ryan, Jovan Celar, Jonathan Martin, Nick Husk

OBJECTIVE

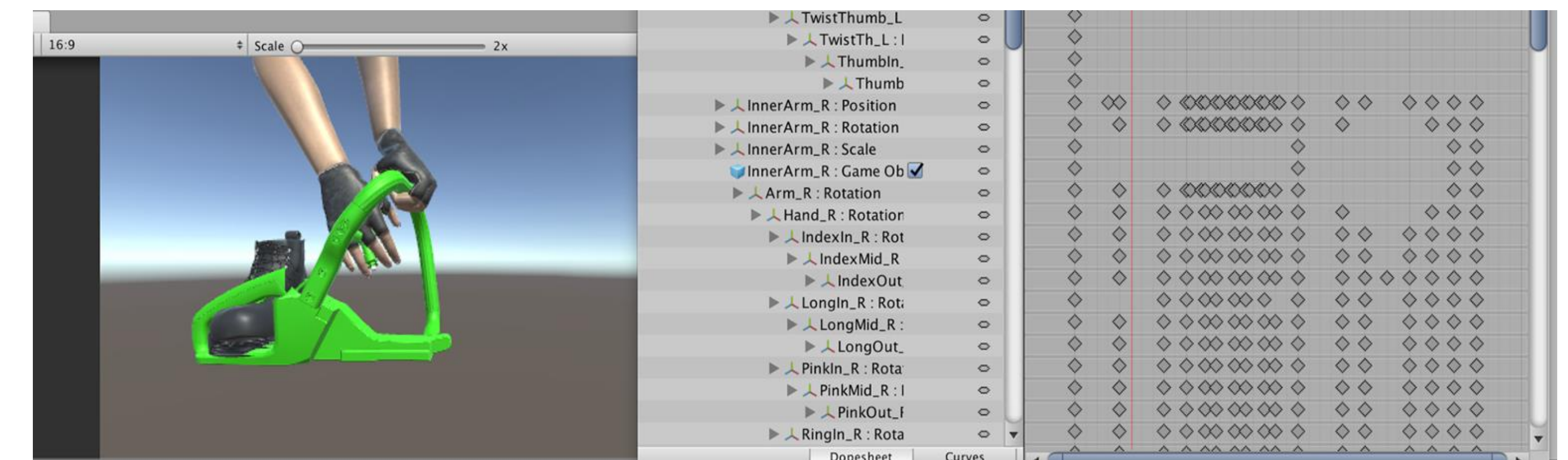
Sponsored by Newport News Shipbuilding, the sole requirement proposed for this project was to create an app using Augmented Reality (AR) within an applied industrial context. AR applications are commonly used for the following:

- Provide Informational Details
- Safe Start-up Guided Instructions
- Proper Blade Changing Instructions



UI / ANIMATIONS

We aimed for our application to be as user friendly. We created a user interface that was easy on the eyes and can be understood by someone new to using apps and/or chainsaws. We created animations that would clearly show the user exactly what was required of them to complete each process with the chainsaw.



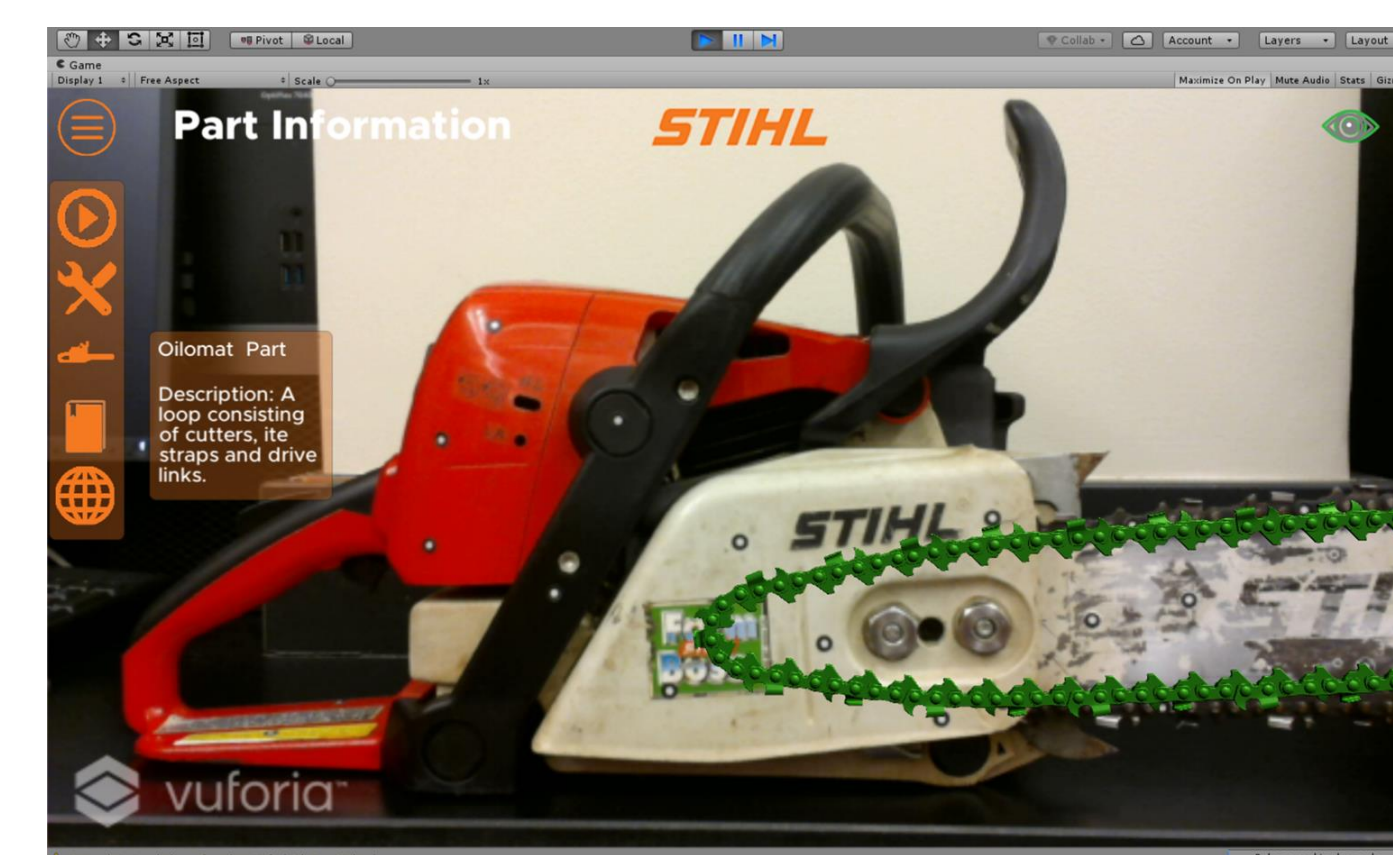
AR vs VR

Unlike VR such as a video game, AR uses your real environment displaying useful digital information to the user. AR is commonly being used for Safety, Training, Operations and Maintenance.



PART IDENTIFICATION

Allows the user to select specific chainsaw components providing the part name and a generic user manual description



ANIMATED INSTRUCTIONS

Provides detailed demonstrations for the proper startup of the chainsaw and blade changing for best safe practice

