

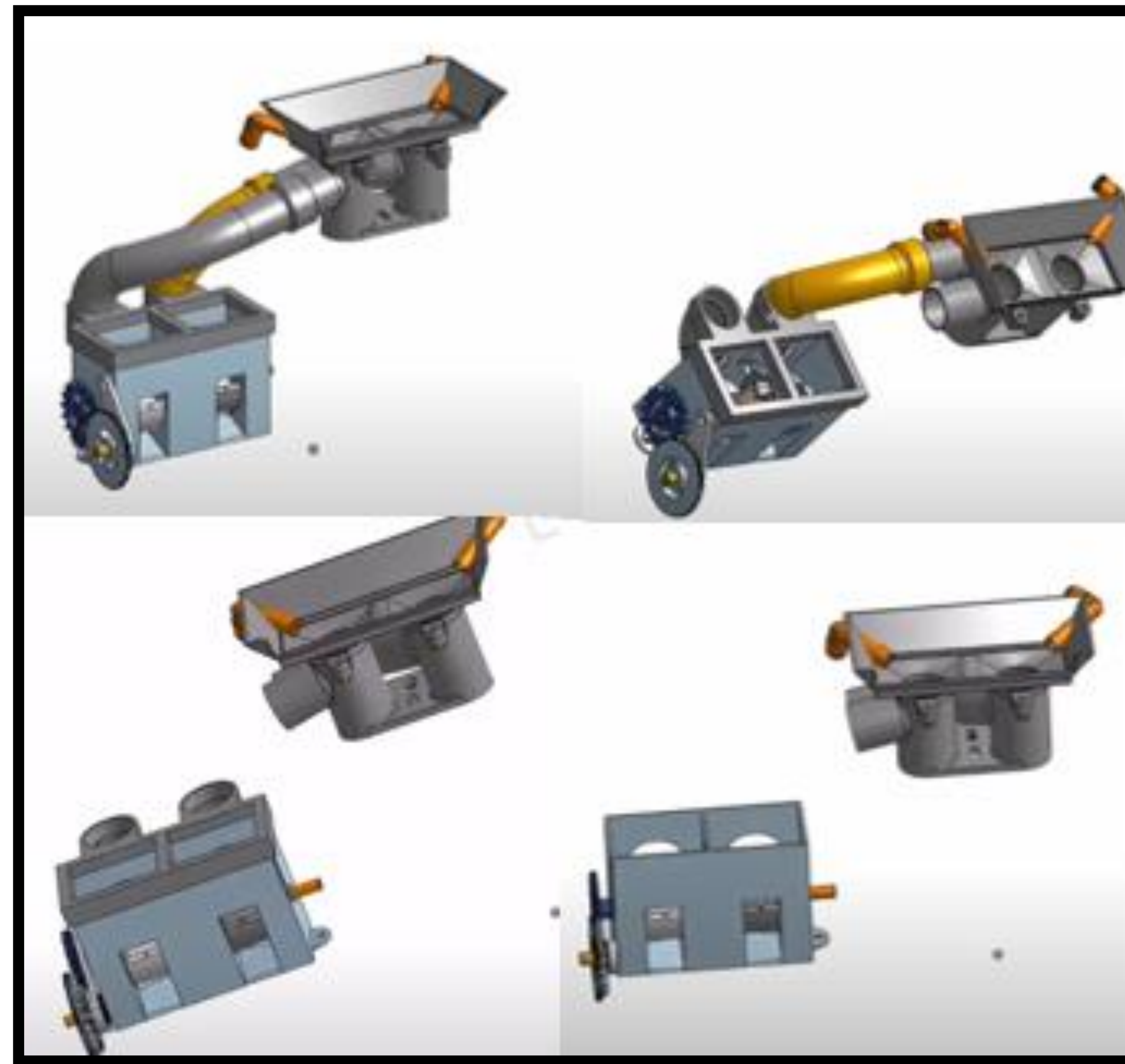
## Background

### What is Augmented Reality?

Augmented Reality, or AR, is virtual images that are displayed in real time in our reality and environment, often on a handheld or hands-free device.

### How is AR used in Maintenance?

AR is often used in maintenance routines utilizing animations to assist workers with visualization of maintenance instructions. This is beneficial to maintenance workers over written instructions as AR provides a visualization of how each step should be performed which workers can view over their actual part in real life.

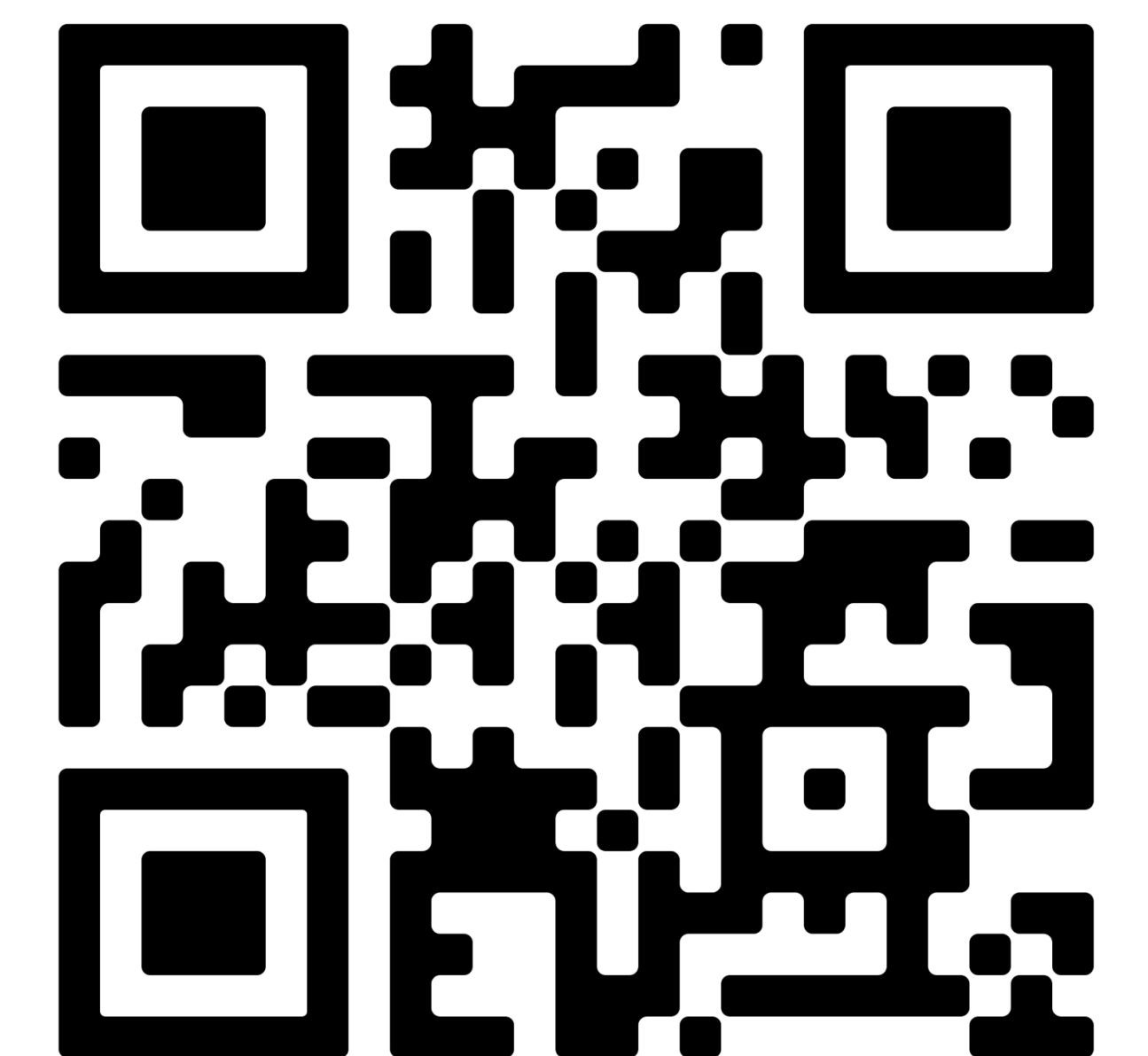


### Vuforia View to Onshape App on Handheld Devices

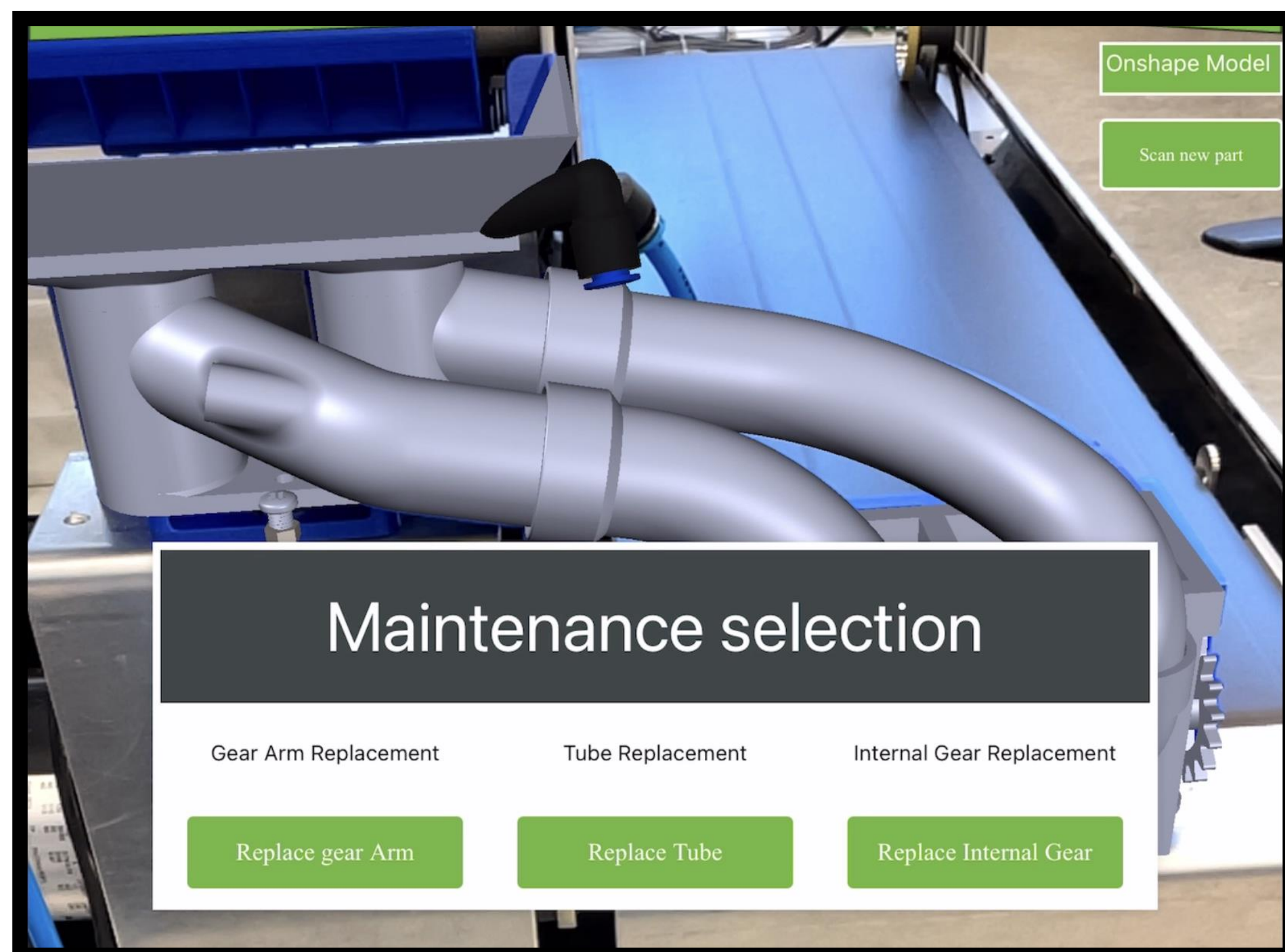
Due to Onshape's SAAS-based capabilities, you are able to access CAD models on any device. This allows for an AR experience on Vuforia View to send the user to Onshape without leaving the current AR experience.

### Youtube Video and Walkthrough

Scan the QR code



[https://youtu.be/2k2CBnTLh\\_k](https://youtu.be/2k2CBnTLh_k)



## Project Summary

This project focuses on creating a more fluid integration between AR work instructions and maintenance documentation. The AR experience was created using PTC's Vuforia Studio and connects with PTC's ThingWorx to send updates on the maintenance routine to a database. This allows for the maintenance worker to update and submit the work order documentation while they are performing it using AR. If the worker has additional questions concerning the routine, they can click on the "Onshape Model" button which takes the user to the current instance of the model they are working on.