

# Scenario 2

## **Expert Drone Pilot and Novice Interaction Scenario – Flight Visualization App Workflow**

James Clements is having a new roof put on the local sports arena he oversees. The construction team wants a drone pilot to take several images of the rafters to make sure they show no signs of failure under the weight of the roof. James normally would have his regular drone pilot take the photos, but he is out sick today. Instead, the construction manager recommends he shows Will Foster, a certified construction worker, how his drone pilot normally would fly through the site.

James knows the previous pilot had recorded his drone path and that he could show the path to Will. James opens the web app and uploads the current build site. He selects the "Analyze" tab to view the 3D model with its inspection points and paths. He moves around the 3D space briefly to confirm that it is the correct 3D site. James explains to Will a bit about the layout of the site and that he needs Will to take images of the rafters.

James then gives Will the keyboard and mouse so he can select a few flight paths from the previous pilot. Will uses the "Highlight" button to highlight Path 1 in the model and checks the "Visible" checkbox for every path. He uses the keyboard and mouse to control the drone and examine each path that appears in the space. He changes the highlighted path when he needs to see details for a specific path. Will notices that the inspection was always performed counterclockwise. Will asks James if he knows why this is, and James states that the air draft usually moves counterclockwise due to several fans placed around the arena. Will continues to explore the 3D space and is confident he is ready to fly the drone to take the photos.