

# IFS Sequence Diagram

The below sequence diagram shows the flow of interactions in the IFS DriverAlert. The diagram outlines how the system processes inputs from the switch, speed and camera, and outputs alerts through the speaker. It provides a clear view of the system's real-time operations and component interactions. **Script 1** is the switch task python file, and it runs on boot to monitor the switch state and car speed, and plays reminders if the switch is auto but no speed is detected. **Script 2** is the drowsiness detection python file, and it starts when the switch is on or speed is at least 20 km/h to detect drowsiness and trigger audio alerts through the speaker.

