**Gesture-Based Device Controller – Quick User Guide**

1. **Power on the System:**
   * Connect your board to the required power supplies: 3.3V for logic and 5V for the relay module.
2. **Activating Gesture Mode:**
   * **Touch the AT42QT101X sensor** (located at PA0). This toggles the system into gesture processing mode.
   * The user LED (LD2) will light up, indicating that gesture mode is active.
3. **Gesture Operation:**
   * With gesture mode active, perform one of the following hand gestures in front of the PAJ7620U2 sensor:
     + **Swipe Up/Down/Left/Right** to update the persistent command.
   * The outputs will change based on the detected gesture:
     + **Output PC10 (IR\_UD\_PIN)** responds to up/down gestures.
     + **Output PC11 (IR\_LR\_PIN)** responds to left/right gestures.
4. **Using Backup Override:**
   * Press the corresponding push buttons on **PA1** (for IR\_UD) or **PA4** (for IR\_LR) to temporarily override the gesture input, forcing the respective output high.
5. **Exiting Gesture Mode:**
   * Touch the sensor again to toggle gesture mode off. The LED (LD2) will turn off, and the outputs will revert to their default off state.