Raspberry Pi Sense HAT [part of Astro-Pi]

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History:

Rev 1.0 - Production version
NOTE In-pad pull ups must be enabled for Port D

4. Make Port D outputs again, re-enable LED driver,
3. Read button state from Port D [7:3]

Scan joystick state every start (or end) of frame:

1. Start joystick scan every start of frame
2. Make sure joystick is driven during idle
3. Read joystick state (or 0, 0, 0, 0)
4. End joystick scan

Start next frame.