

**Jetson AGX Orin Host Setup & Board Control**

**Host System Setup**

**1. Create udev Rule**

**Purpose**: Avoid sudo for carrier board interactions.

**Steps**:

1. Edit/create the udev rule file:

sudo nano /etc/udev/rules.d/99-mcurule.rules

1. Add this line (AGX Orin-specific):

SUBSYSTEM=="usb", ATTRS{idVendor}=="0955", ATTRS{idProduct}=="7045", GROUP="plugdev", TAG+="uaccess"

1. Reload rules:

sudo udevadm control --reload-rules && sudo udevadm trigger

**Basic Board Control**

**Location**: Run commands from Linux\_for\_Tegra/ directory.

**Key Commands**

|  |  |
| --- | --- |
| Command | Action |
| ./tools/board\_automation/boardctl -t topo recovery | Power cycle + force recovery mode |
| ./tools/board\_automation/boardctl -t topo power\_off | Power off the board |
| ./tools/board\_automation/boardctl -t topo power\_on | Power off, then power on |
| ./tools/board\_automation/boardctl -t topo reset | Reset (no power cycle) |

**Example Workflow**:

# Force recovery mode   
./tools/board\_automation/boardctl -t topo recovery   
  
# Power cycle   
./tools/board\_automation/boardctl -t topo power\_on

**Notes**:

* Replace -t topo with your carrier board topology if using custom hardware.
* Ensure USB connection to the recovery port for these commands to work.