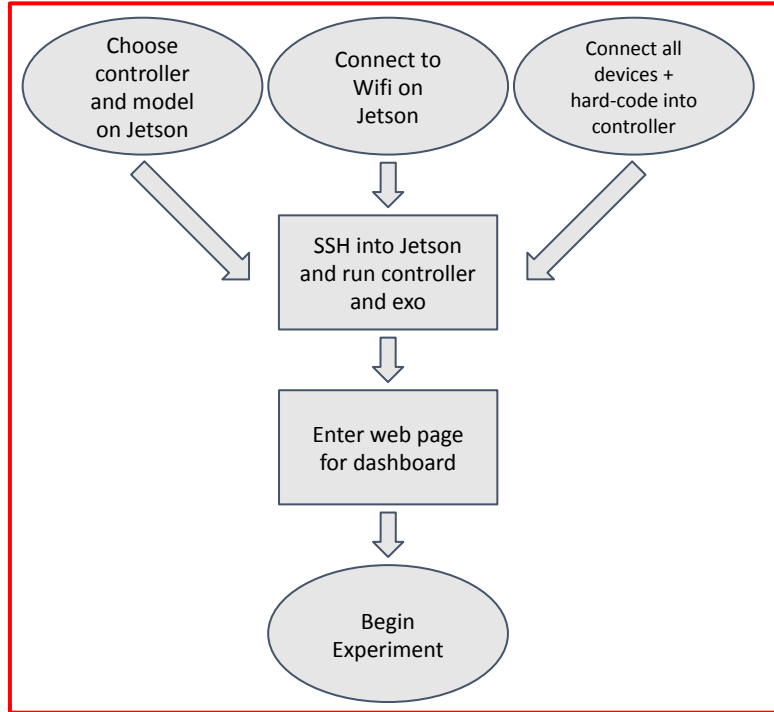
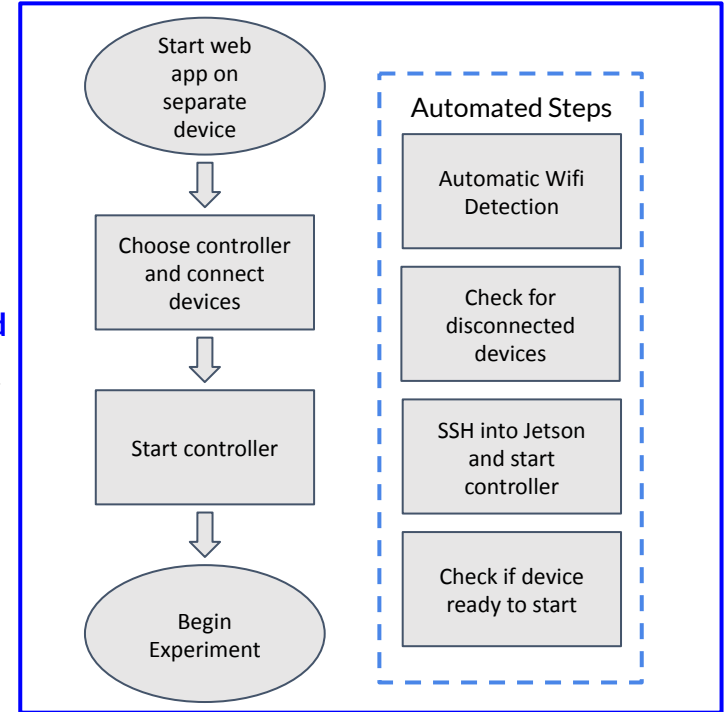


Easy Setup Software - Proposed Design



Current vs Proposed

Current workflow requires more manual setup and difficult to control



Easy Setup Software

EPIC Controller Dashboard

● READY ● BLOCKED ● UNKNOWN

combined_state_controller.py
Run

hip_controller_COMBINED.py
Run

exo_controller_daniel.py
Run

exo_controller_daniel_debug.py
Run

hike_controller.py
Run

hip_controller_COMBINED_noinsole.py
Run

hip_controller_COMBINED_noinsole_BO.py
Run

hip_controller_COMBINED_noinsole_BO_v2.py
Run

hip_controller_COMBINED_noinsole_BO_v3.py
Run

hip_controller_COMBINED_noinsole_BO_v4.py
Run

hip_controller_COMBINED_noinsole_BO_v5.py
Run

hip_controller_COMBINED_noinsole_BO_v6.py
Run

hip_controller_COMBINED_noinsole_BO_v7.py
Run

hip_controller_KEYA.py
Run

hip_controller_KEYA_new.py
Run

hip_controller_noback.py
Run

hip_controller_noback-xs.py
Run

prueba.py
Run

model_comparison_controller.py
Run

bayesian_autom.py
Run

hip_offline_COMBINED_FINAL.py
Run

hip_offline_HipTorque_FINAL.py
Run

hip_offline_PowAng_FINAL.py
Run

SENSORS

Device ID	Type	Status
154141	IMU	connected
154140	IMU	connected
156124	IMU	connected
156125	IMU	connected
156122	IMU	connected
SN813287000058-WSPK4-S00539-R06	Insole	connected

ACTUATORS

Motor ID	Type
4	AK80-9
2	AK80-9

SUMMARY

Jetson Host	Sully: 192.168.50.220
Xsensors	ON
Wi-Fi	CAREN_5G
Last updated	5 seconds ago

• IMU: left.thigh — id mismatch
• IMU: right.shank — missing
• Xsensors — required but unavailable
• Motor: right.hip — missing

```
← → trek
M connection_hub.py 1, U X microstrain_imus.py 1 hip_controller_COM
< > connection_hub.py > ConnectionHub > write_device_info
ConnectionHub():
def return_xsenser_info(self) -> dict:
    return data

sully@ubuntu: ~
}(sully) sully@ubuntu:~$ sudo cat /var/log/devices.json
{
  "IMUs": {
    "Ready": false,
    "Status": "No IMUs connected"
  },
  "Xsensors": {
    "Ready": true,
    "XsensorCount": 2
  },
  "Ready": false
}(sully) sully@ubuntu:~$ sudo cat /var/log/devices.json
{
  "IMUs": {
    "Connected IMUs": [
      "193843"
    ],
    "Disconnected IMUs": [
      154141,
      154140,
      156124,
      156125,
      156122
    ]
  },
}
```