NI Hardware in loop testbench
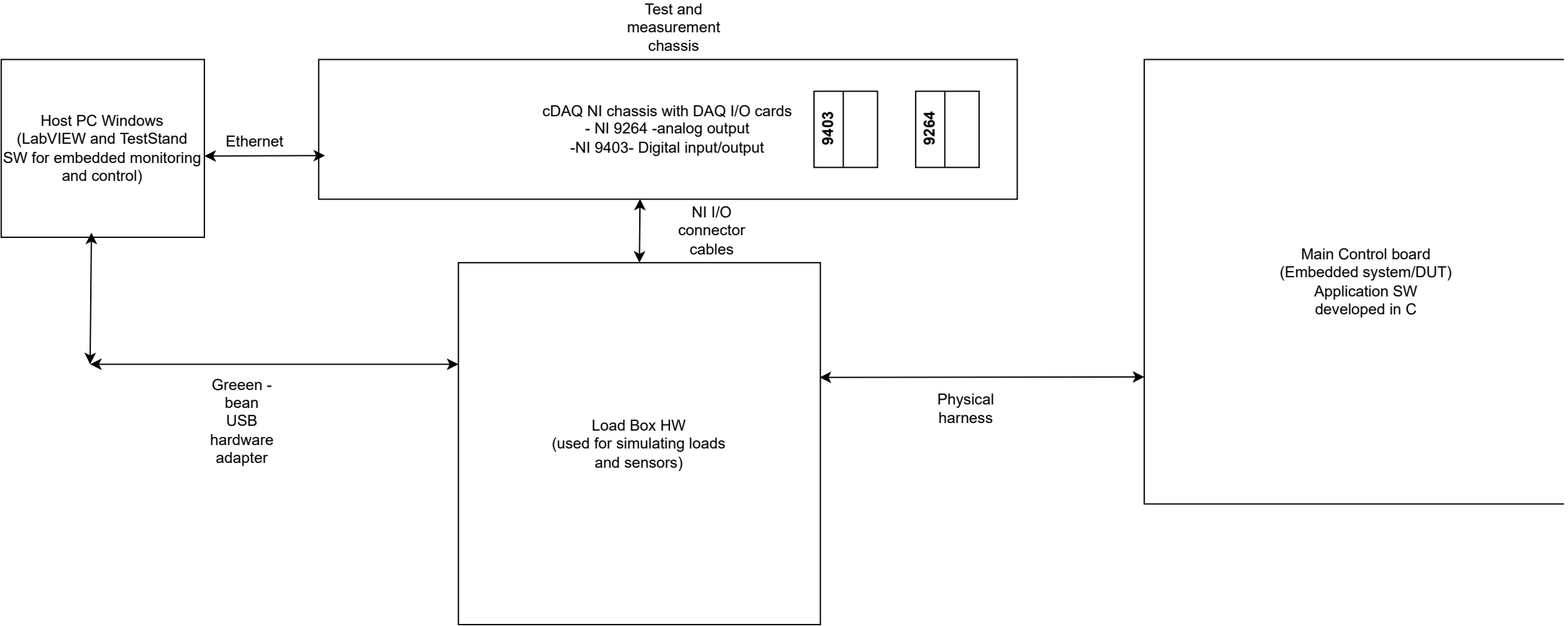
Host PC Windows
(LabVIEW and TestStand
SW for embedded monitoring
and control)

Test and
measurement
chassis

cDAQ NI chassis with DAQ I/O cards
- NI 9264 -analog output
-NI 9403- Digital input/output

9403

9264

Ethernet

Main Control board
(Embedded system/DUT)
Application SW
developed in C

NI I/O
connector
cables

Greeen -
bean
USB
hardware
adapter

Load Box HW
(used for simulating loads
and sensors)

Physical
harness