

Pepper Robot Activation Guide

1. Requirements

- Pepper Robot (NAOqi 2.8/2.9)
- Windows PC on the **same network** as Pepper
- Python 2.7 (64-bit) installed
- NAOqi Python SDK (pynaoqi) for Windows (e.g., `pynaoqi-python2.7-2.8.6.23-win64-vs2015.zip`)

Virtualenv installed:

```
pip install virtualenv
```

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2. Create and Activate Virtual Environment

```
virtualenv -p "C:\Python27\python.exe" pepper_env  
.\pepper_env\Scripts\activate  
python -V
```

✓ Should show **Python 2.7.x**

3. Add NAOqi SDK to Environment

Unzip SDK to a folder, e.g.:

```
C:\SDK\pynaoqi-python2.7-2.8.6.23-win64-vs2015
```

- 1.

Add SDK to your Python path:

```
$SDK = "C:\SDK\pynaoqi-python2.7-2.8.6.23-win64-vs2015"
$env:PYTHONPATH =
"$SDK\lib;$SDK\lib\python2.7\site-packages;$env:PYTHONPATH"
$env:PATH = "$SDK\lib;$env:PATH"
```

2.

Test import:

```
python -c "import naoqi, qi; print('NAOqi import OK')"
```

3.

⚠ If it still fails:

```
$SITE = python -c "import distutils.sysconfig as s;
print(s.get_python_lib())"
Copy-Item "$SDK\lib\ naoqi.py" $SITE -Force
Copy-Item "$SDK\lib\qi" $SITE -Recurse -Force
Copy-Item "$SDK\lib\qimessaging" $SITE -Recurse -Force
```

4. Find Pepper's IP Address

On Pepper's tablet:

Settings → **About** → **Network** → **IP Address**

Example: 192.168.1.15

5. Test Connection

```
python -c "from naoqi import ALProxy;
tts=ALProxy('ALTextToSpeech', '<PEPPER_IP>', 9559); tts.say('Hello, I am
Pepper!')"
```

Replace <PEPPER_IP> with the robot's actual IP.

6. Troubleshooting

- **No module named naoqi** → check `PYTHONPATH` points to the right folder.
- **DLL errors** → confirm Python (32/64-bit) matches the SDK version.
- **Connection errors** → ensure PC and Pepper are on the same Wi-Fi, firewall is off.

Test network reachability:

```
ping <PEPPER_IP>
```

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7. Next Steps

- Try other modules:
 - `ALMotion` → move Pepper's joints
 - `ALTabletService` → interact with Pepper's tablet
- Extend with AI features (speech recognition, FAQ bot, triage assistant).