# Install Raspbian

Follow the instructions at

* <https://projects.raspberrypi.org/en/projects/noobs-install>

# Use the CUED time server

sudo nano /etc/systemd/timesyncd.conf

under [Time] add a line

Servers=ntp1.eng.cam.ac.uk

and type ctrl+o, ctrl+x to save the file and leave the *nano* editor. Type

sudo systemctl daemon-reload

sudo systemctl restart systemd-timesyncd

date

and the correct date and time should be shown.

# Install OpenCV

At the time of writing there’s no pre-packaged installer for Raspberry Pi, so follow the instructions at

* <https://www.life2coding.com/install-opencv-3-4-0-python-3-raspberry-pi-3/>

to build and install *OpenCV* from source.

There’s plenty of space on the SD card, so you can start from step 3.

In Step 9, you DO need to do the rename step.

# Enable the Camera

Menu => Preferences => Raspberry pi configuration

Then, in the Interfaces tab, set Camera to “enabled”

# Install the software

Download the software from GitHub at

* <https://github.com/CambridgeEngineering/PartIB-Paper1-Pendulum-Lab>

Unzip the download, and run the installer

unzip CambridgeEngineering/PartIB-Paper1-Pendulum-Lab-master.zip  
cd PartIB-Paper1-Pendulum-Lab-master/src

make install

and reboot.