

# LAB SETUP

TTM4205 - Live Demo + Help

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#### **Contents**

Linux (and Mac, kind of)

**Windows** 



#### Introduction

- ► There might be some problems with the paths for binaries. Let me know and I will help you and update the .zip folder.
- ► I will be using Linux, but I will try to help you with Windows and Mac as well.
- Windows is the easiest and quickest. Follow the instructions in the installation.md file.
- ▶ I have no experience with Mac, but I will help you.

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## **Prerequisites**

- ▶ I don't personally have a Mac, so let's figure that one out together.
- Nice to have: Python version manager (pyenv OR anaconda).
- Compilers and other packages
- ► Git

#### **Anaconda (Miniforge)**

```
curl -L -O "https://github.com/conda-forge/miniforge/
   releases/latest/download/Miniforge3-$(uname)-$(uname -m).
   sh"
bash Miniforge3-$(uname)-$(uname -m).sh
```



## **Installing packages**

```
sudo apt update && sudo apt upgrade
```

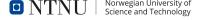
```
sudo apt install build-essential gdb lcov pkg-config \
    libbz2-dev libffi-dev libgdbm-dev libgdbm-compat-dev
    liblzma-dev \
    libncurses5-dev libreadline6-dev libsqlite3-dev libssl-
        dev \
    lzma lzma-dev tk-dev uuid-dev zlib1g-dev curl
```

sudo apt install libusb-dev make git avr-libc gcc-avr \ gcc-arm-none-eabi libusb-1.0-0-dev usbutils



### Chipwhisperer

```
cd ~/
git clone https://github.com/newaetech/chipwhisperer
cd chipwhisperer
git submodule update --init jupyter # grab Jupyter notebook
   tutorials
sudo cp hardware/50-newae.rules /etc/udev/rules.d/50-newae.
   rules
sudo udevadm control --reload-rules
sudo groupadd -f chipwhisperer
sudo usermod -aG chipwhisperer $USER
sudo usermod -aG plugdev $USER
```



## **Python packages**

```
conda create -n chipwhisperer --python=3.9.5 ipython
conda activate chipwhisperer
pip install -r requirements.txt # from chipwhisperer/jupyter
pip install chipwhisperer
```



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## **Prerequisites**

See installation.md on the course page.



# Questions?

