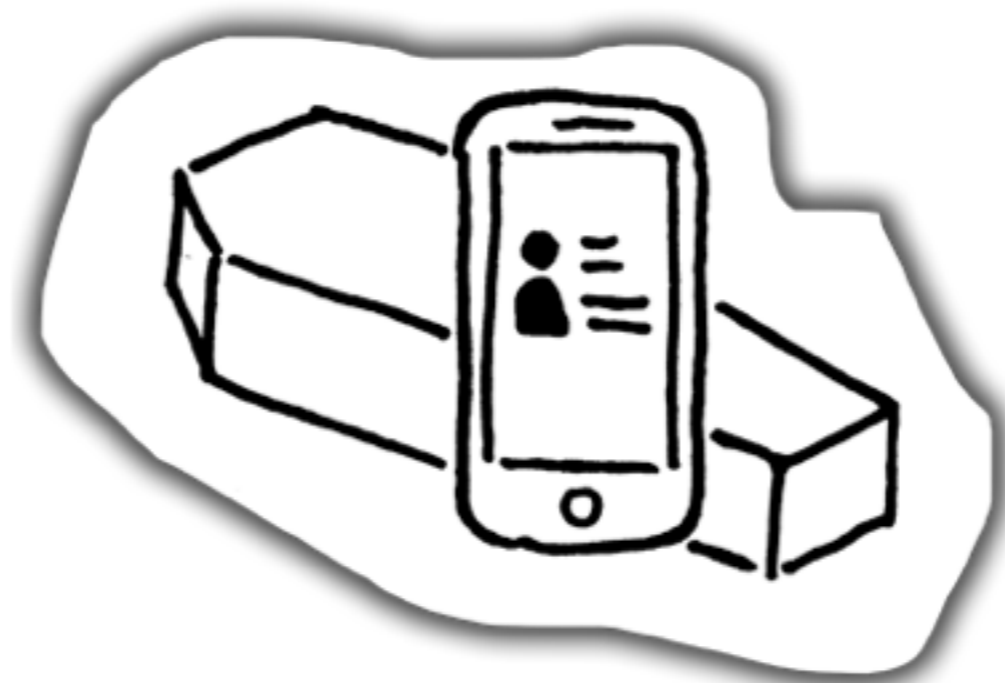


# Pier 37: ID Hunters

Midterm Review



Efficient Forensic Photos

# The context

- Natural disasters with thousands of victims
- Efficient forensic pictures are fundamental for body identification
- Main problem is efficient photo-taking:
  - Framing, light, blurriness..

**Portable photo studio for efficient forensic pictures**

# The requirements

- Adaptable and universal
- Different working environments



# The requirements

- Adaptable and universal
- Cheap
  - ~\$100 if you are in Switzerland



# The requirements

- Adaptable and universal
- Cheap
- Compact, fit in a normal size backpack



**Minimum photograph set required for visual identification**

**A) Whole Face**



**B) Whole Body**



**C) Upper Body**



**D) Lower Body**



Source: Pongruk Sribanditmongkol / Photographer: Kunt TongTahm Na Ayudhaya

- We need the following pictures:
- Whole face
- Whole body
- Upper body
- Lower body

Note: For the purpose of demonstration, photographs were taken of a volunteer and not of a deceased individual.

# The approach

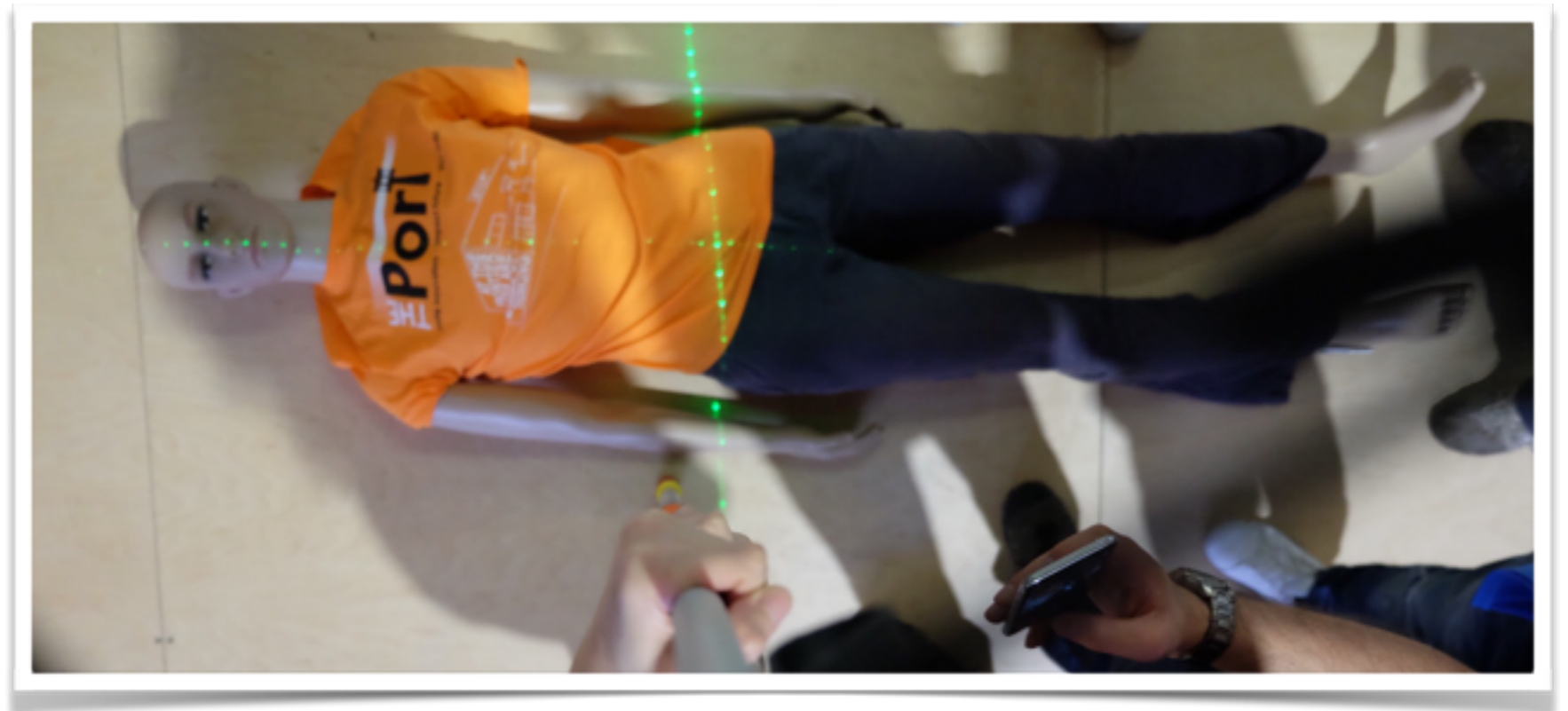
- A modular “selfie” stick
- Laser pointer for framing
- Portable lighting
- Analog trigger (?)
- Tools for post processing (face recognition...)



# Laser framing



- Framing using reference given by the laser
- Can be used in the post-process phase to calculate dimensions



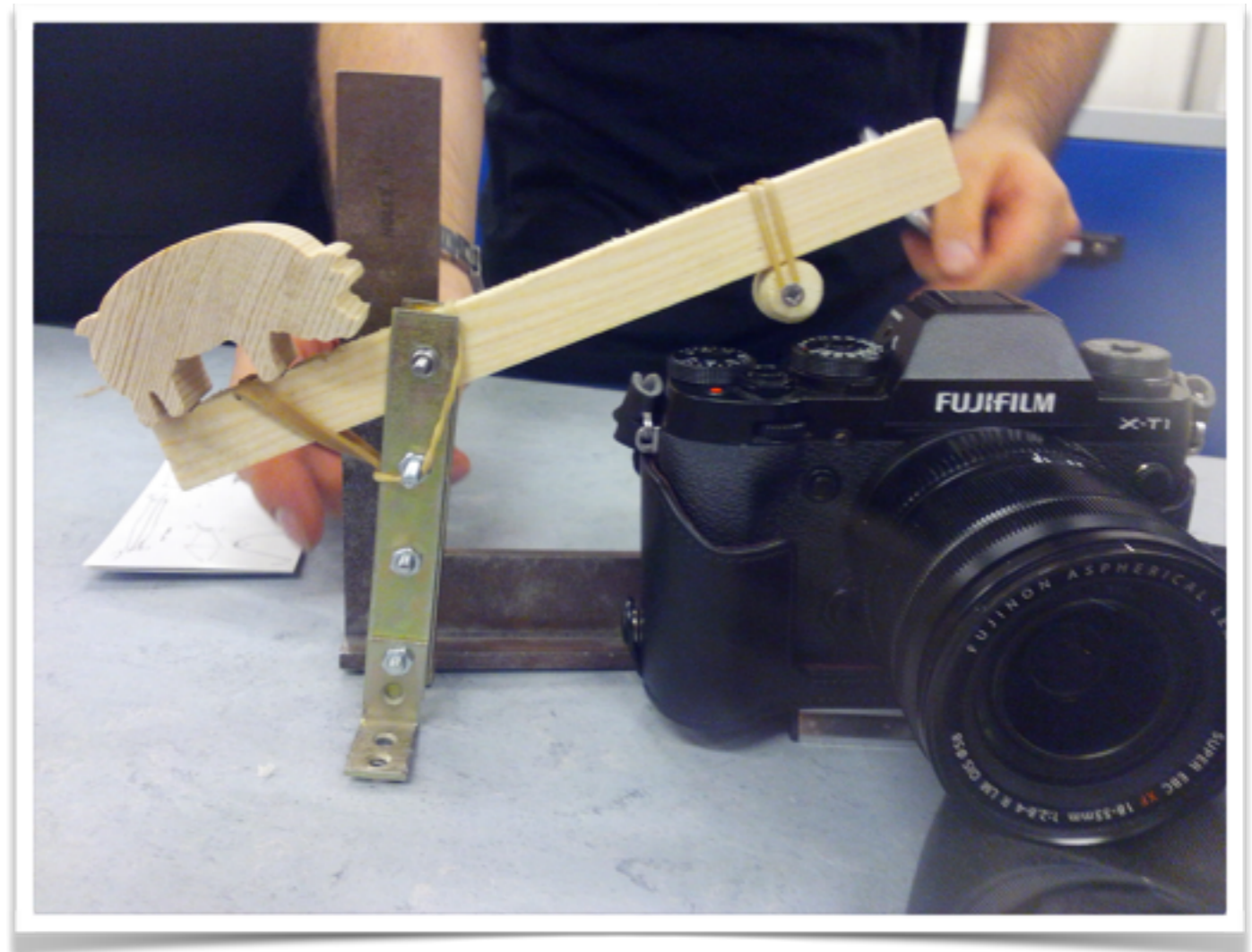




# Analog trigger



- Not all cameras have remote control, not universal
- Camera is far away
- We need a mechanism to trigger the camera



**Thanks!**