

INGENIEURPRAXIS

MUSCLE CONTROLLED GRIPPER

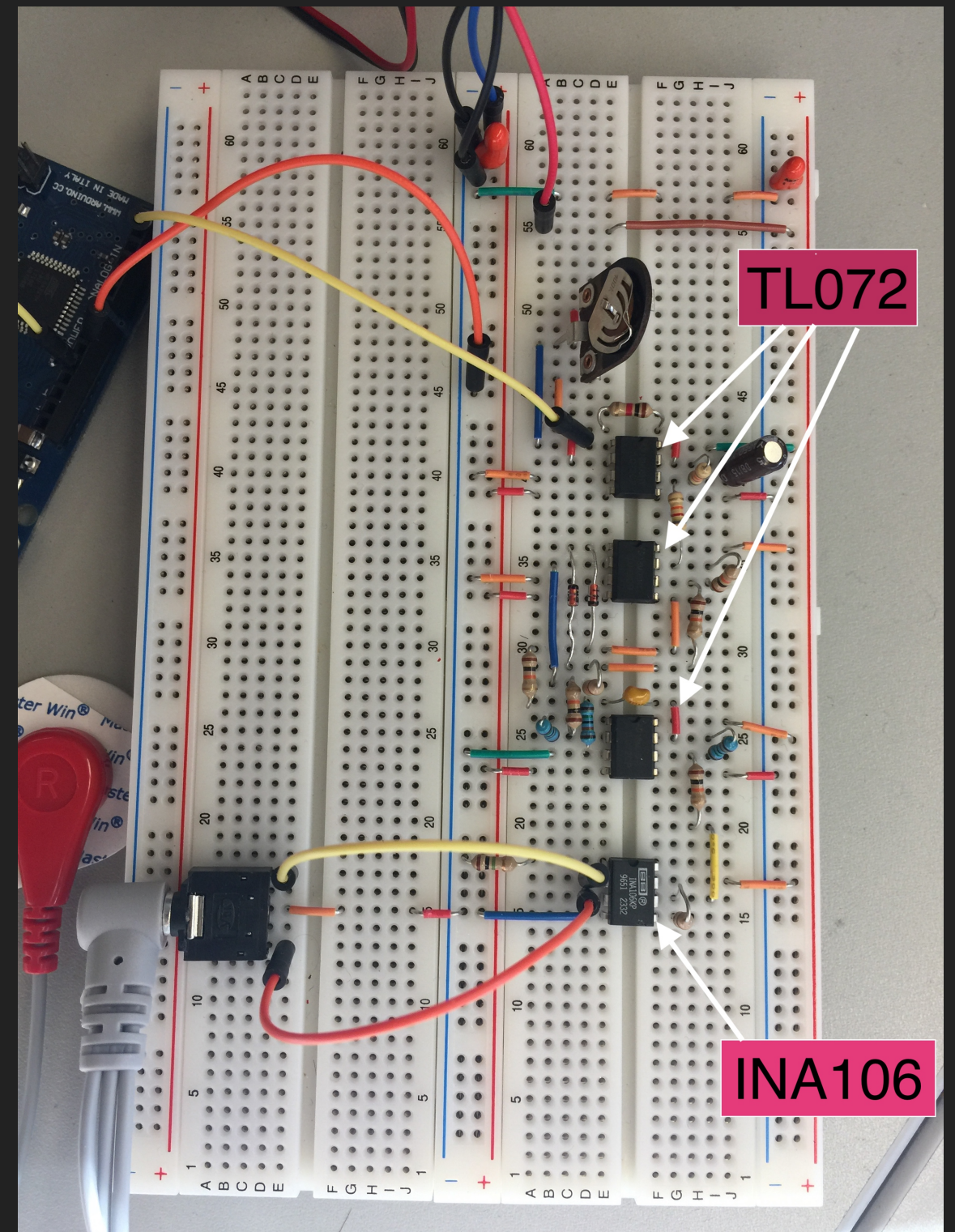
3D-PRINTED GRIPPER

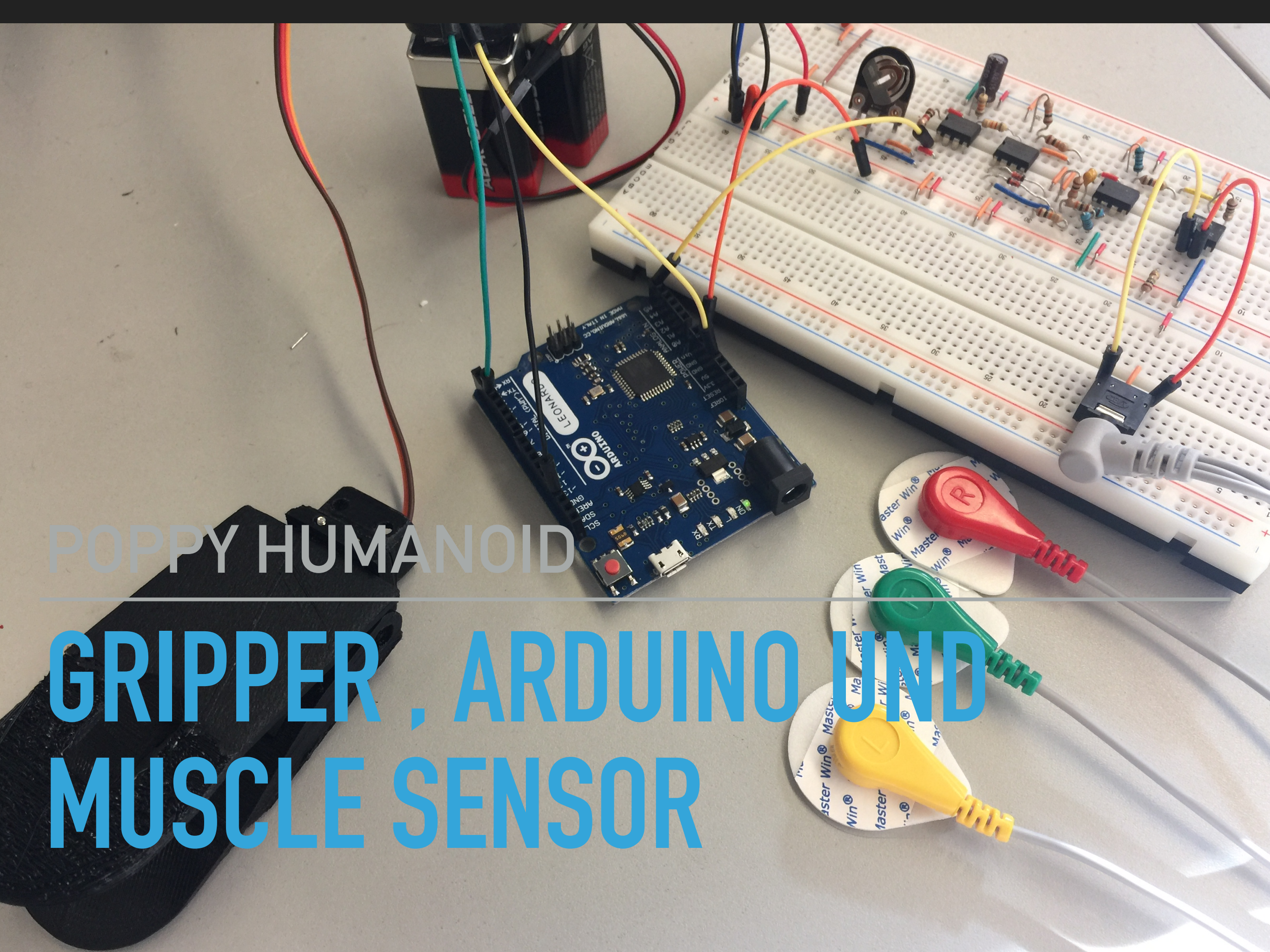
- ▶ Designed for Poppy humanoid using Onshape
- ▶ Made out of 4 parts :
 - the rotative part
 - the fix part.
 - New motor base
 - the fixation



MUSCLE SENSOR

- ▶ Mainly using these chips : TL072 and INA106.
- ▶ Based on the muscle activity .
- ▶ Working in 3 steps :
 - Signal acquisition
 - Signal amplification
 - Signal rectification
 - Signal smoothing

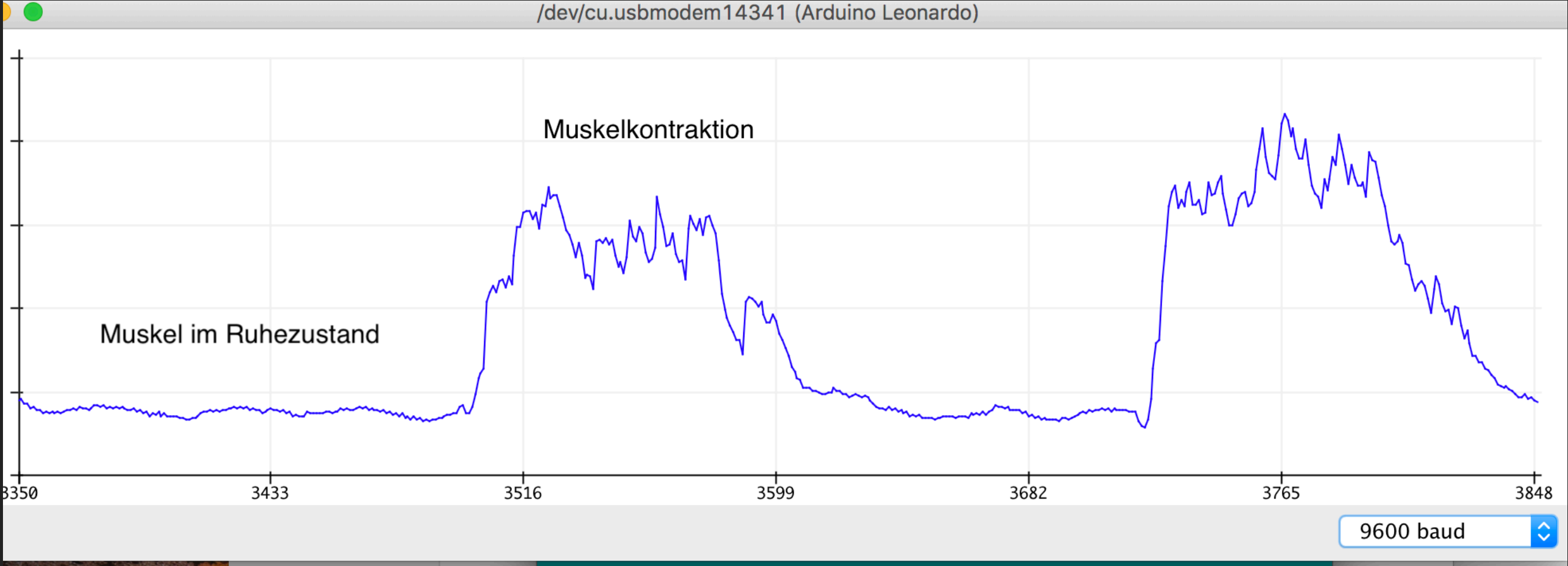




POPPY HUMANOID

GRIPPER, ARDUINO UND
MUSCLE SENSOR

SERIAL PLOTTER



FINAL PROJECT

