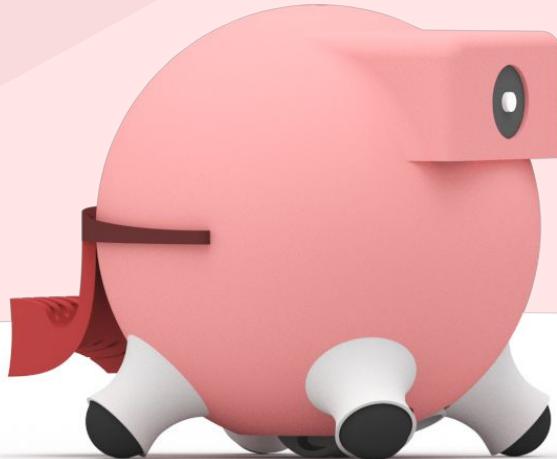


CONDUIT SERVICE ROBOT CONSTRUCTION ASSISTANT MACHINE

20. July 2021

Tzu Ching Wen



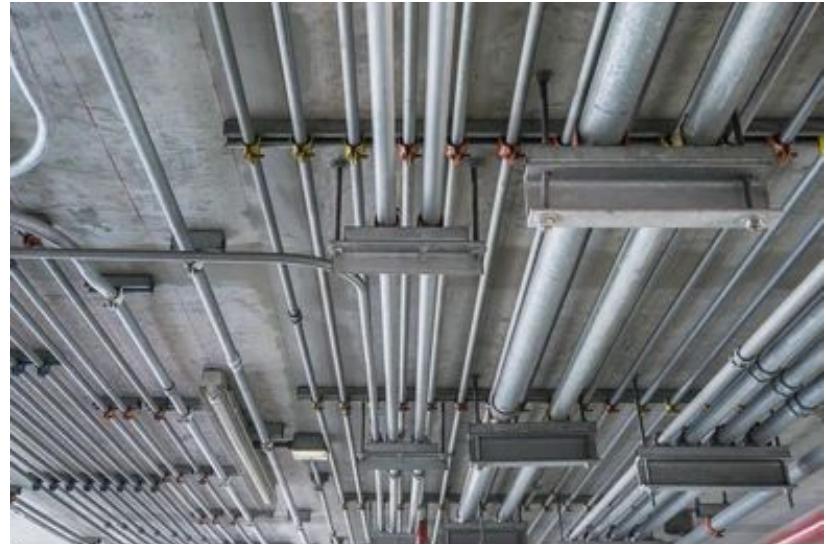
CONCEPT

SERVICE ROBOT

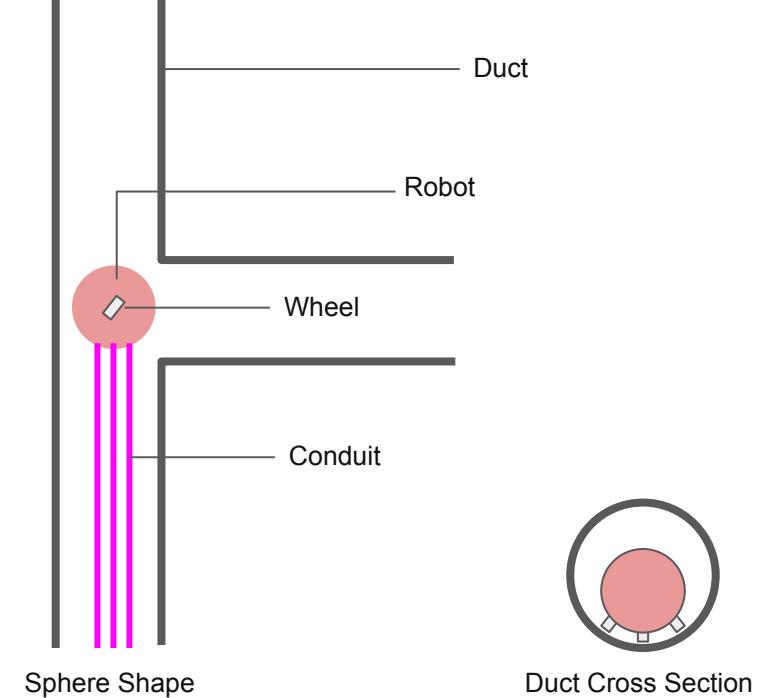
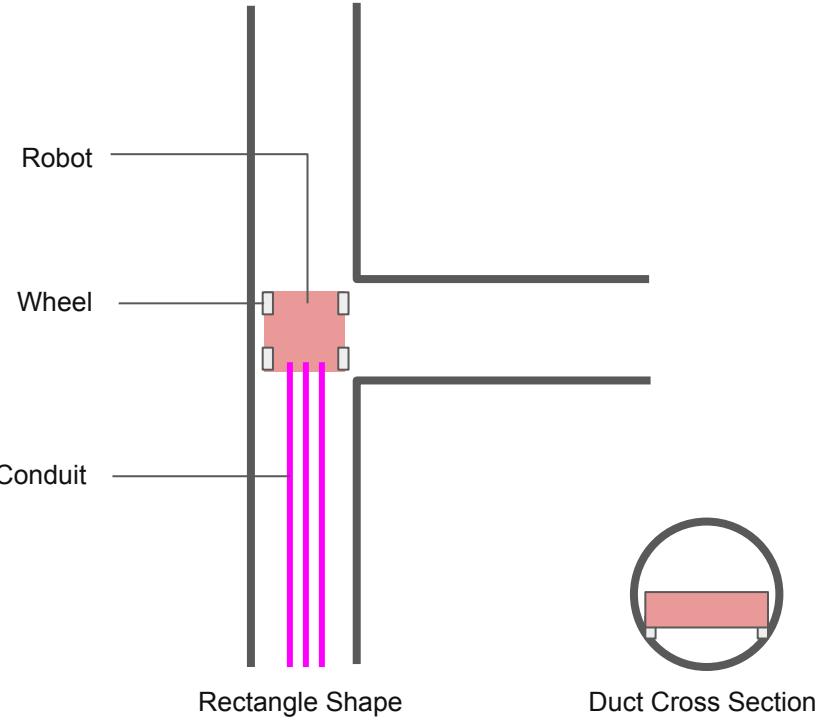


CONCEPT

DUCT TYPE

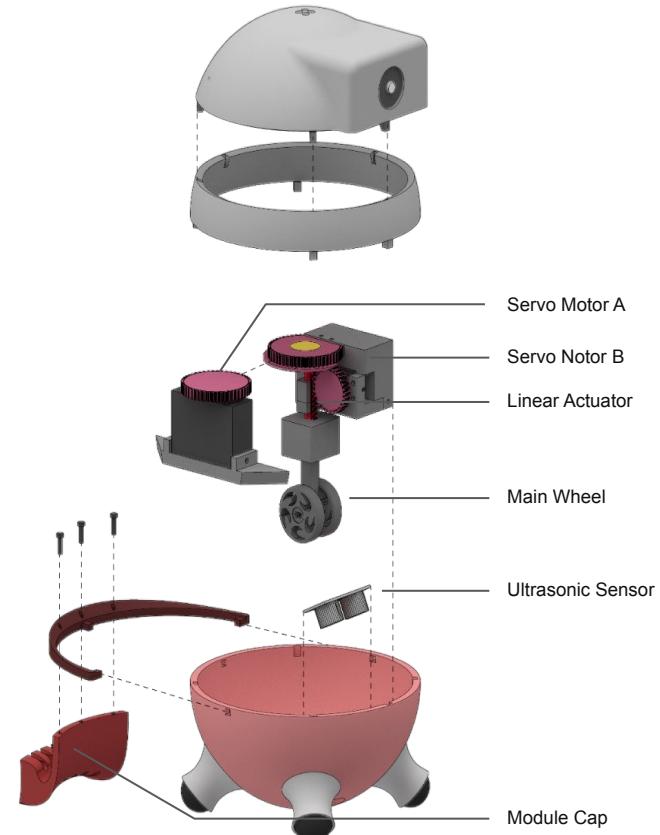
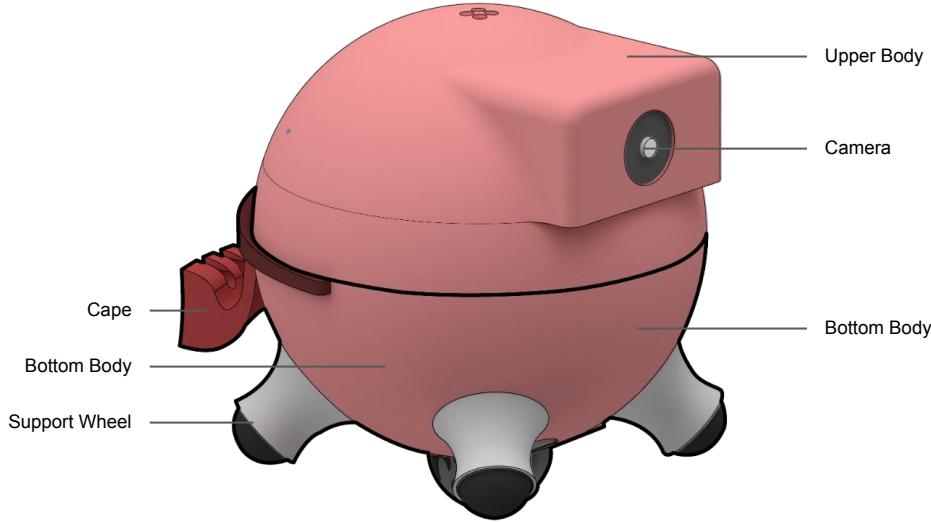


TOP VIEW OF ROBOT IN DUCT



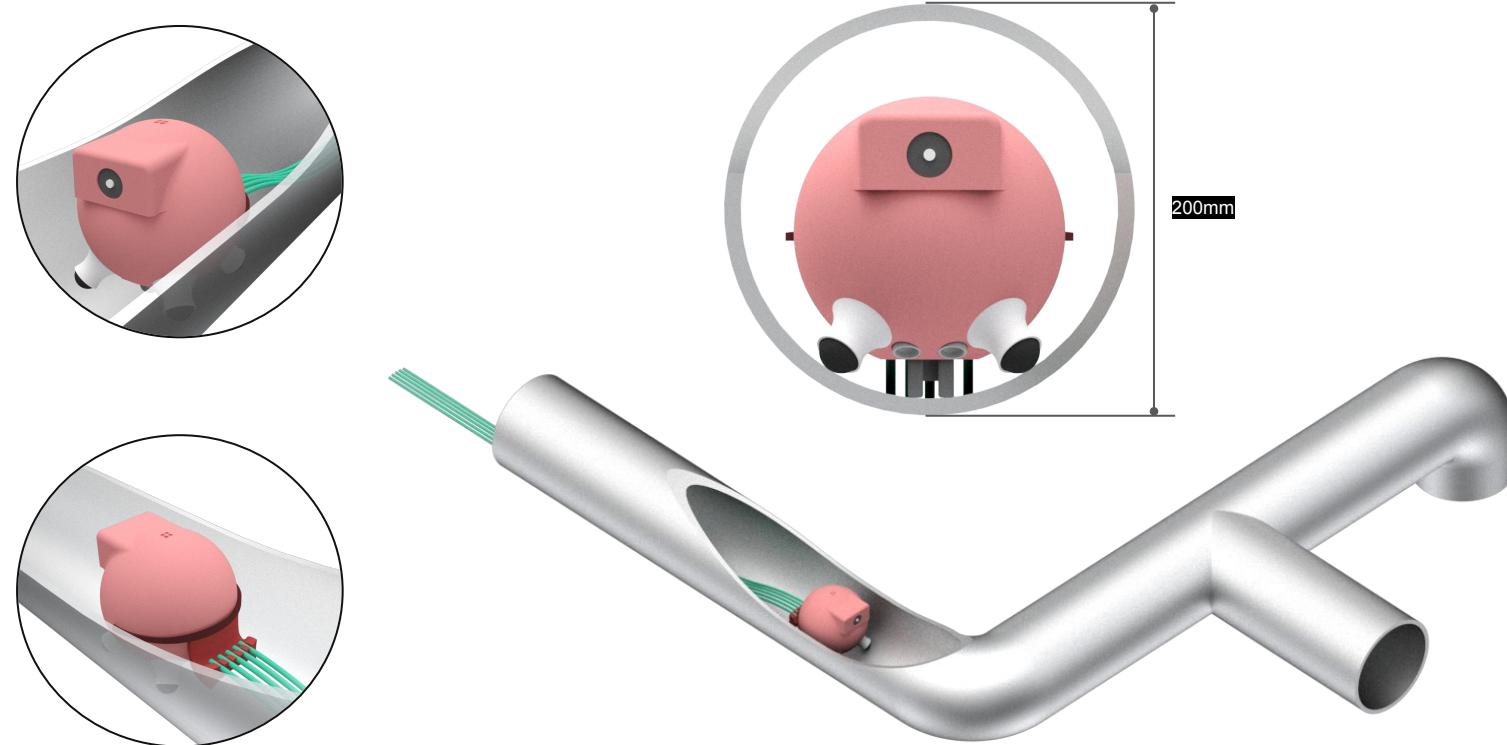
BOTTOM BODY MECHANISM

Height: 160mm
Width: 160mm

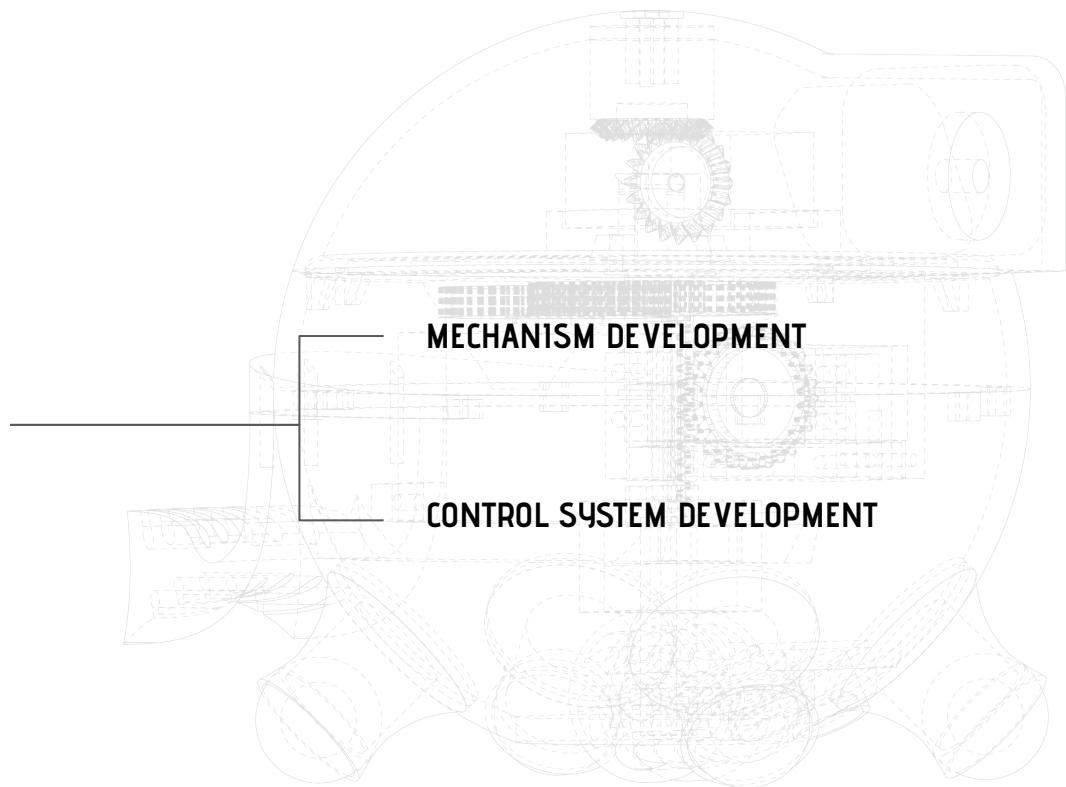


CONCEPT

SERVICE ROBOT

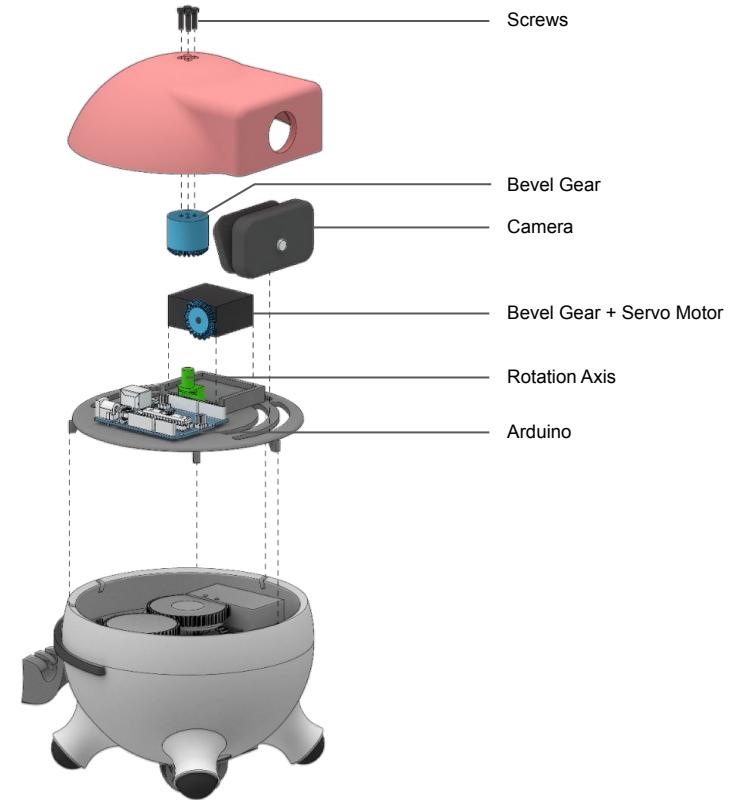
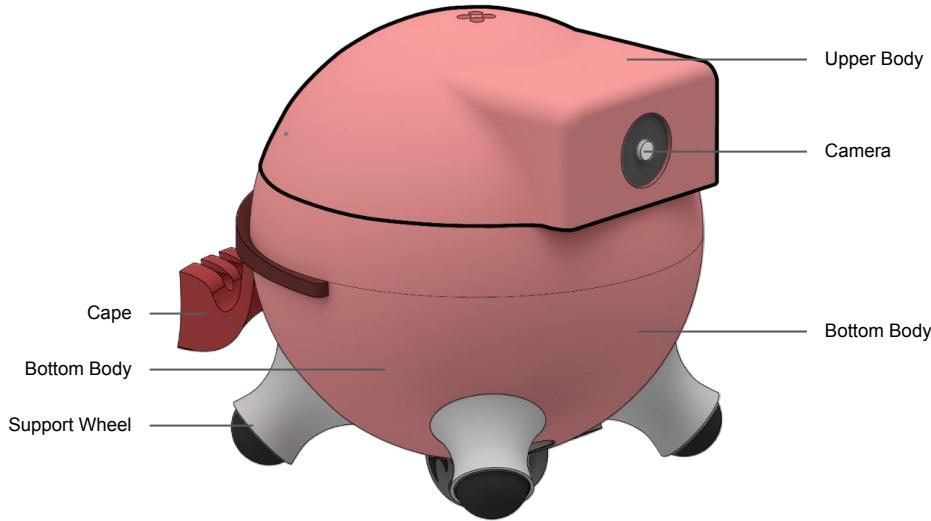


TECHNICAL DEVELOPMENT

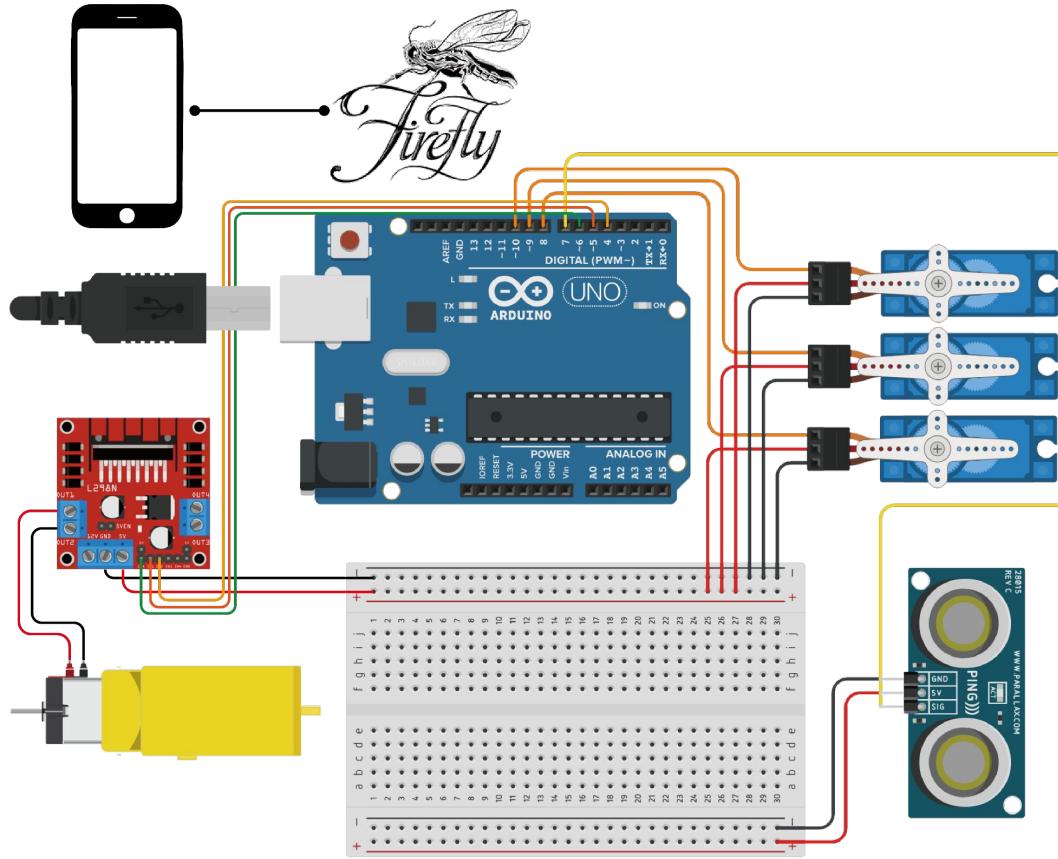


UPPER BODY MECHANISM

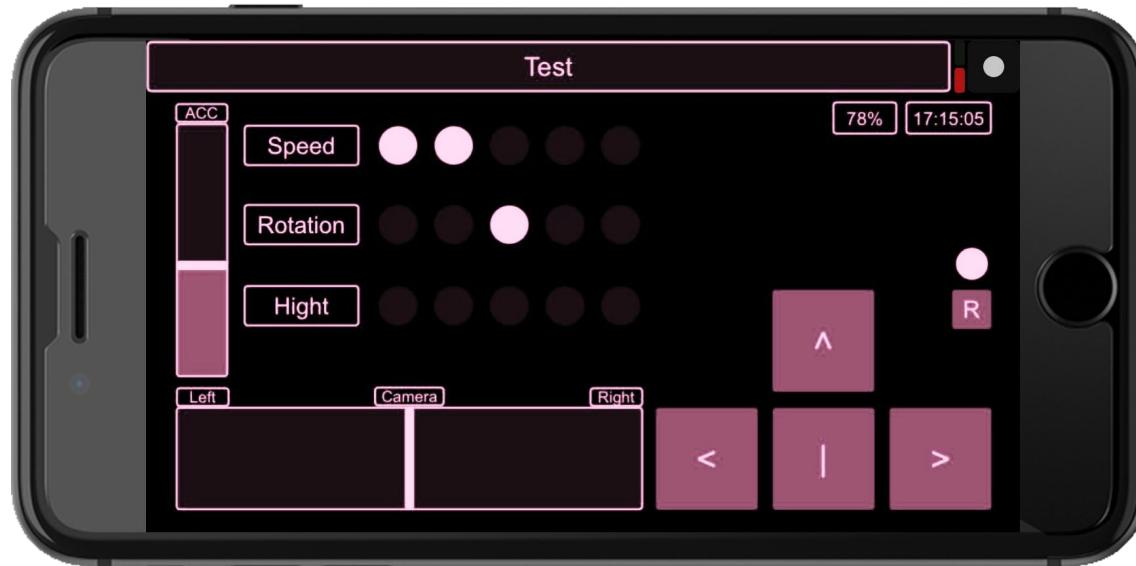
Height: 160mm
Width: 160mm



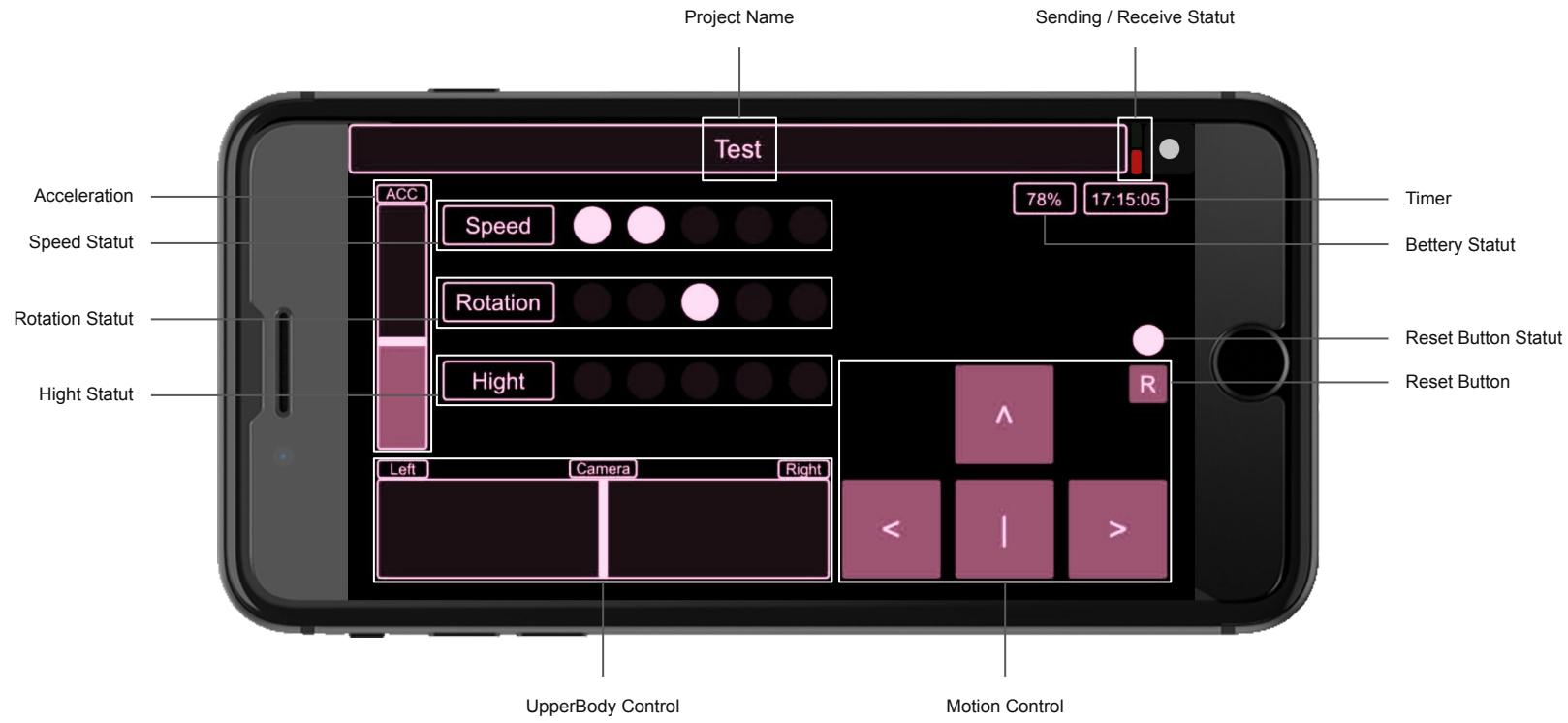
CIRCUIT DETAIL



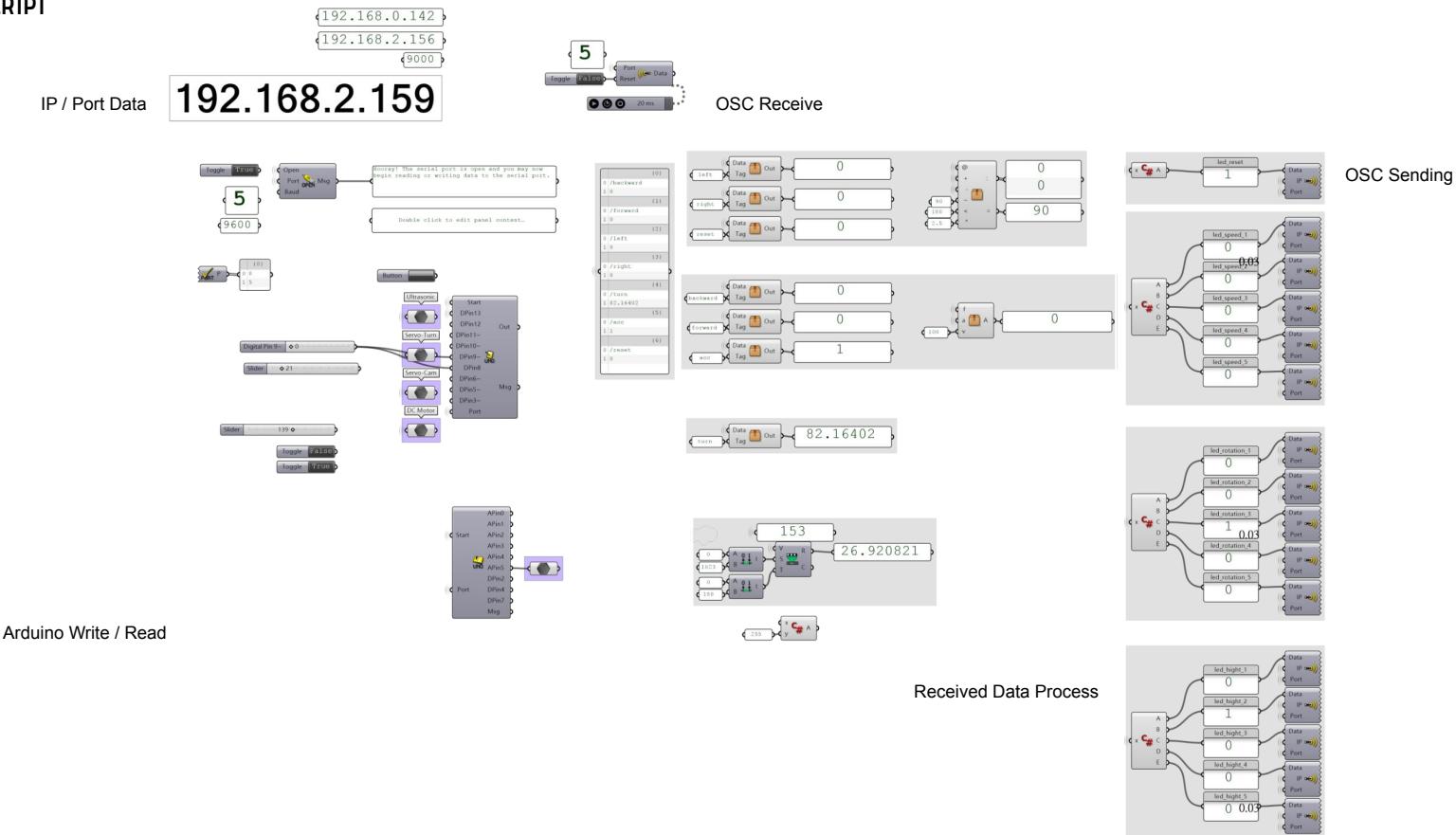
CONTROL SYSTEM



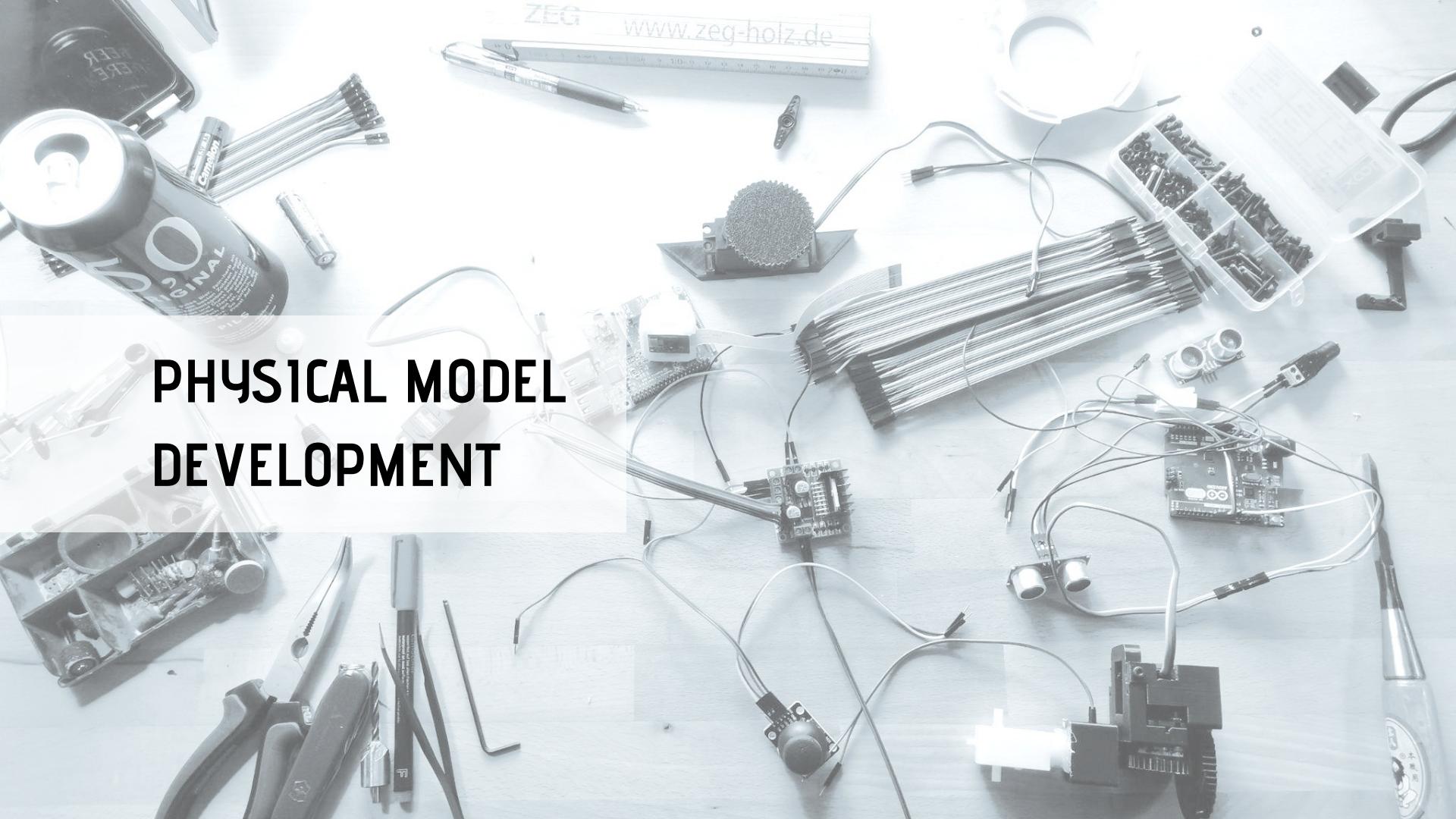
CONTROL SYSTEM



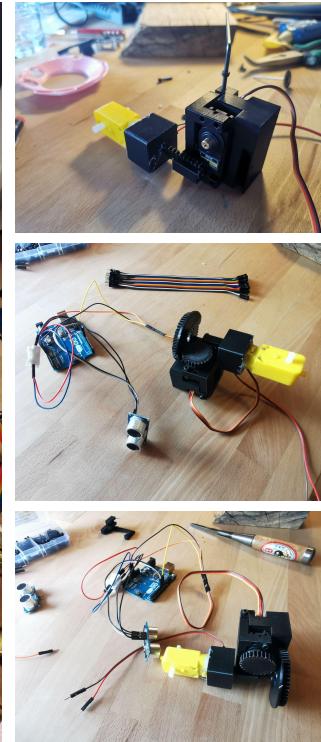
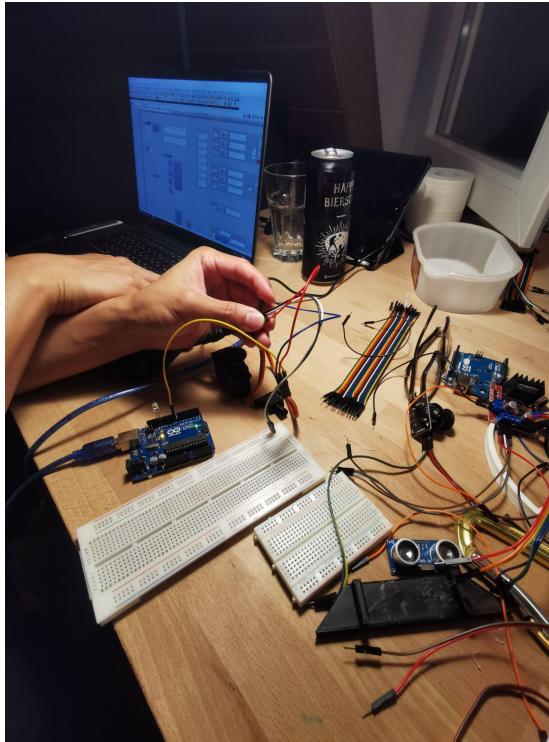
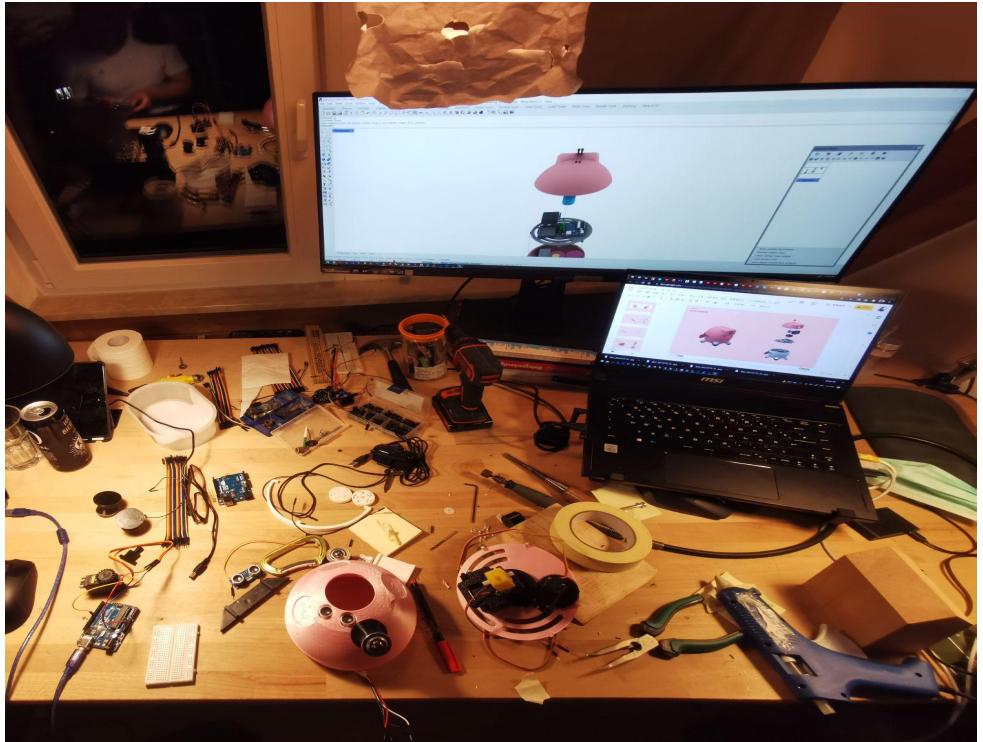
FIREFLY SCRIPT



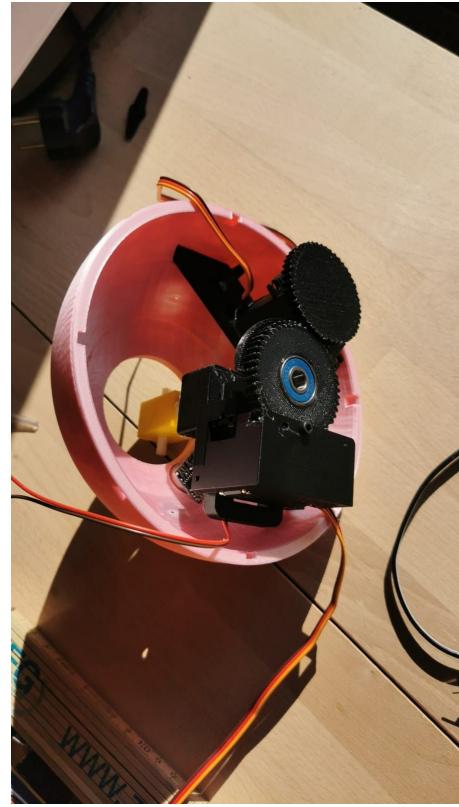
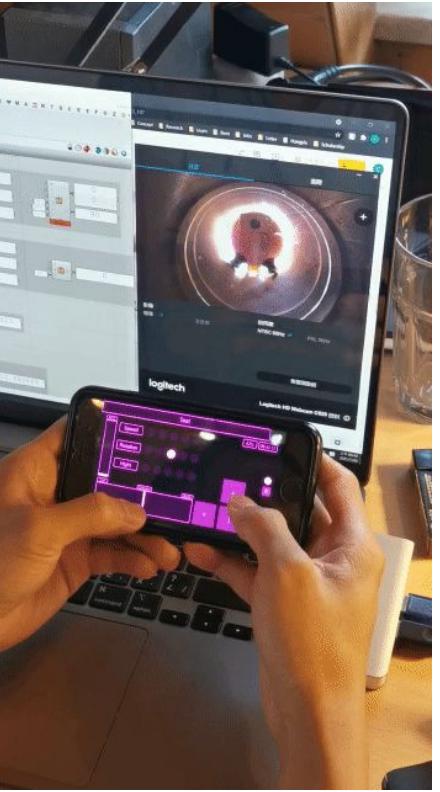
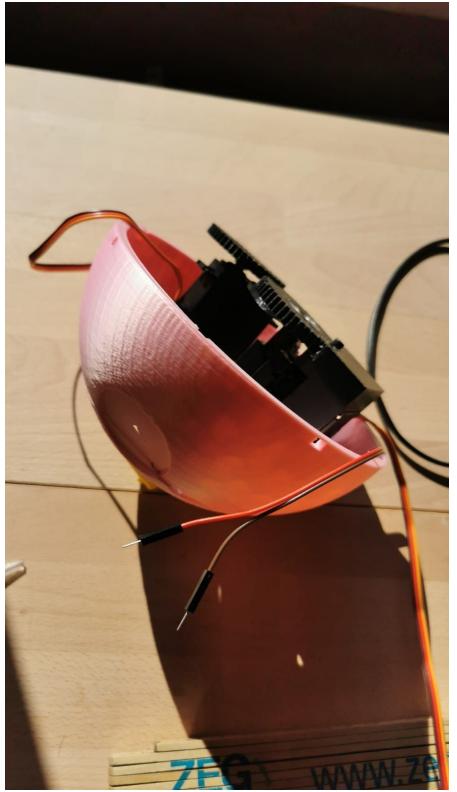
PHYSICAL MODEL DEVELOPMENT



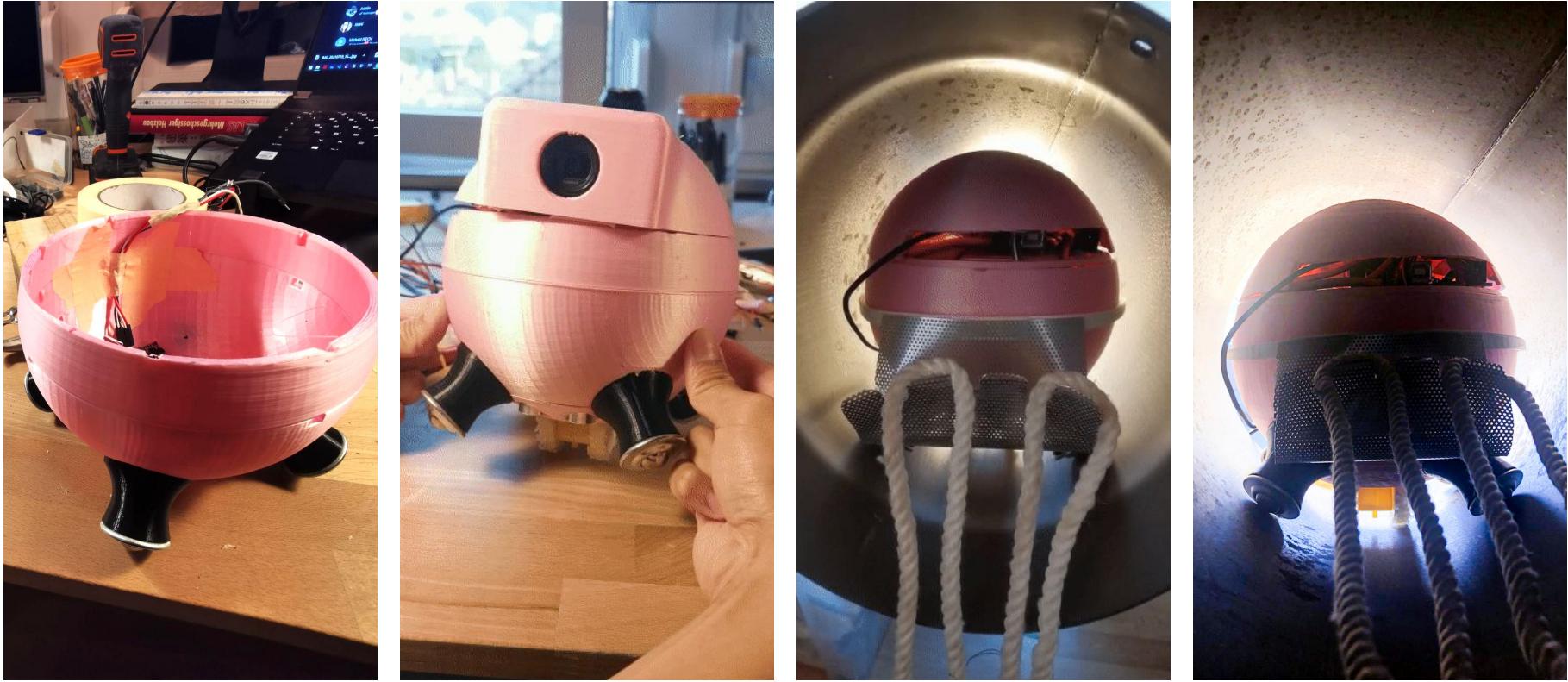
DEVELOPMENT PROCESS



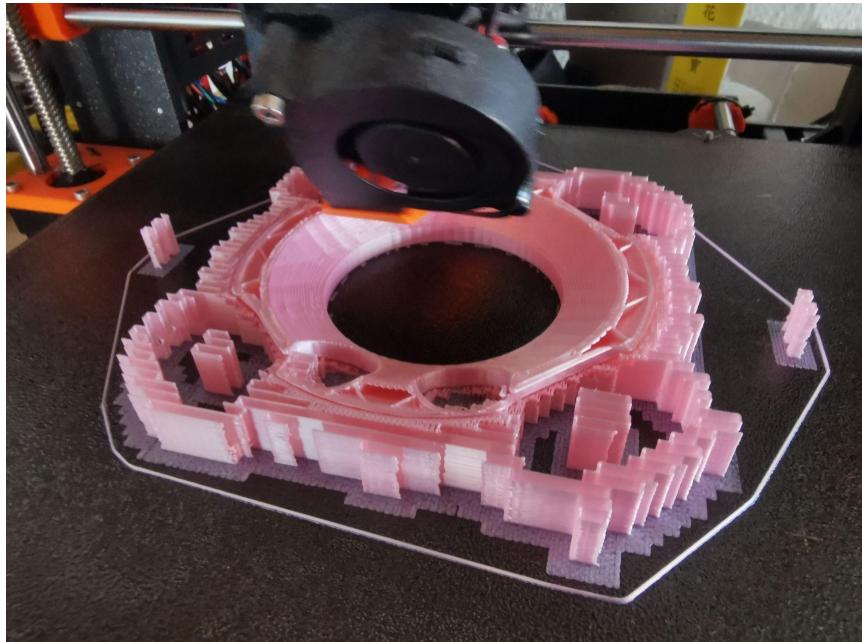
DEVELOPMENT PROCESS



DEVELOPMENT PROCESS



DEVELOPMENT PROCESS



DEMONSTRATOR PROCESS

