



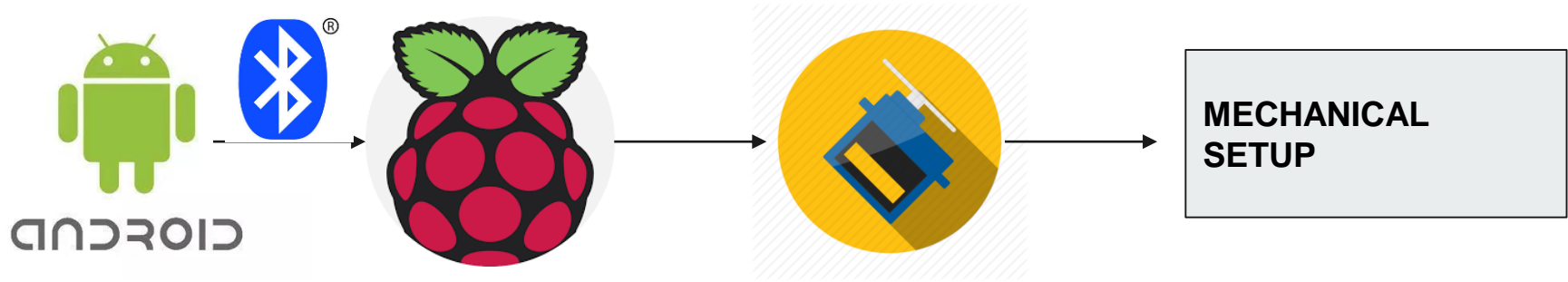
Autogaze

Gaze at the audience, not at your shoes

Key Problem:



Solution:

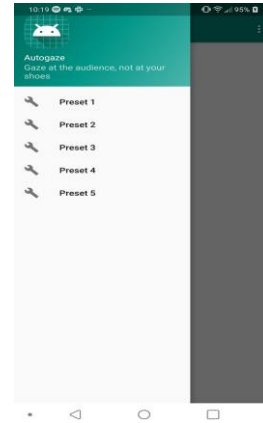


PROGRESS:



- Design pedal block and fixtures for pedal knobs in Google Sketchup ✓
- 3D print these fixtures and check compatibility ✓
- Make improvements in application and the mechanical design
- Testing and documentation

Application:

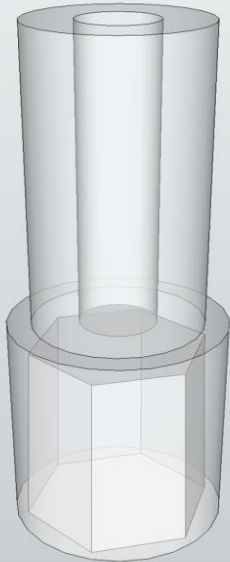


Setup:

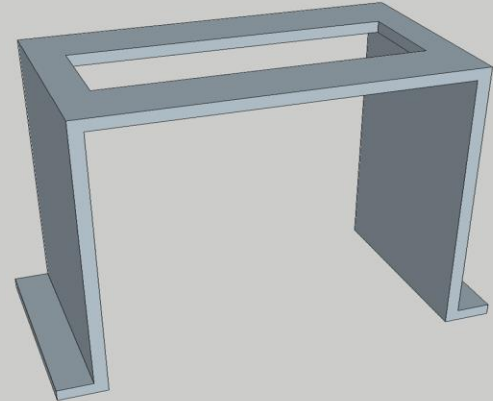


MECHANICAL DESIGN

KNOB + SHAFT



BLOCK SUPPORT



FAILURE -> FUTURE WORK:



1. Switching from 180' to 360' servo motors
2. Modular design
3. App with custom intensities
4. PCB design of entire setup

PROBLEMS FACED:



1. Running the RPi application and the Bluetooth script on start-up
 - Solved through parallel execution of both
2. Making sure the RPi doesn't stop working when bluetooth is disconnected
 - Solved using a try - except block in the RPi application
3. Removing jitter from the 180' servo motors
 - Solved using different GPIO library
4. Mechanical Design
 - Yet to be solved

CONCLUSION



- Guitarists find it troublesome to adjust the guitar pedal during a performance
- To save rock 'n roll, we present Autogaze, a simple solution which lets you tune the pedal at the tap of a button on your phone
- Use Autogaze and gaze at the audience, not at your feet.



Thank you!