

Date: 01/13/2023

Assignment 1 (Week 1)

- Read about ESD protection and send me a plan of your actions for working with our development kit and other electronic devices (PCBAs, Sensors, Components).
 - Always be properly grounded when touching a static-sensitive component or assembly.
 - Remove clutter (plastic, vinyl, foam) from the static-protected workstation.
 - Place parts in a static-protected area before removing them from their containers.
 - When working with a ESD sensitive device, place it on a grounded ESD mat.
 - Avoid hand contact by transporting and storing products in static-safe containers, use ESD protective bag when carrying ESD sensitive device.
- Find two or three embedded systems in the gramophone (not electrical) and describe what they do.
 - One subsystem is the needle moves the attached diaphragm which produce sounds. The horn then amplifies the sound and direct sound waves.
 - The disk moves relative to the needle. To provide constant speed, there is another subsystem to stabilize the rotational speed.
 - At the end, the needle starts to move faster to the center, and another subsystem detects this move, shifts the lever and stops the motor.