GLO Update Meeting 1 Agenda

Present Subsystem Designs from Design Review 1 Document

- Go over Design Review 1 Document (current version).
- Go over schematic mockup.

Questions

- Need 5 V for some objects (aiming laser and LED strips)
    - 3 or 4 batteries?
    - If 3, then boost converter?
    - Are we better off aiming high with voltage and stepping down, or aiming for 4.5 V and doing a step up for 5V and a step down for 3.3V?
- STEMMA module/microcontroller interface and data connection.
- Button bounce → software control ~~and/or hardware control (capacitor)~~.
- On the PCB: TX/RX, power, blink LEDs.
    - Antenna for Bluetooth - can we **use ESP32 module** or need external antenna?
    - Are we missing anything?
- Does "working" subsystems mean that the code needs to be functional/finalized by DR2?
- Audio files for stemma speaker

Action Items

- Once orders arrive, start prototyping and testing IR emitters/receivers.
- Start prototyping other subsystems.

- Start schematic on KiCad once subsystems are decided/mostly finalized.