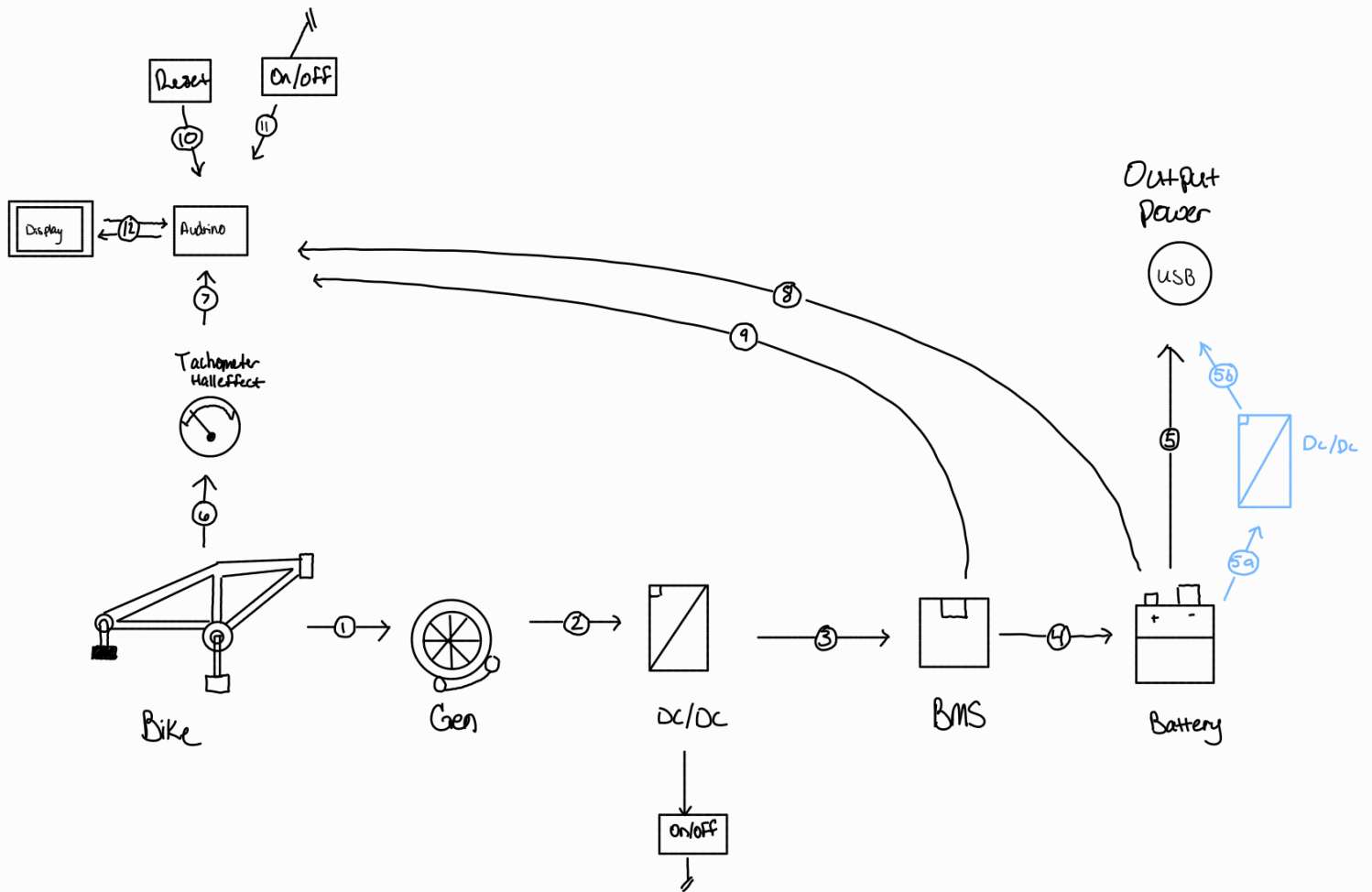


Bike Generator



Power

① mechanical → Electrical

② Converts the 12v to 5v.

③ the 5v is being converted to a safer current.

④ safe voltage & current is charging the battery

⑤ safe voltage & current is being used to power usb.

⑥ Hall effect sensor data gathered from the Bike pedal.

⑦ Hall effect data is being sent to the Arduino to get "Speed."

⑧ Battery level sent to Arduino

⑨ Charging level sent to Arduino

⑩ Reset distance, time, speed... ect.

⑪ Turn Bike & generation off

⑫ Displays all data

5a
5b needs to convert to a usable voltage & current

[Signature]
9/14/2025