Firmware installation instructions

1) Install ESP32 in Arduino IDE: <https://randomnerdtutorials.com/installing-the-esp32-board-in-arduino-ide-windows-instructions/>

2) Install Bluetooth keyboard and mouse library in Arduino: <https://github.com/blackketter/ESP32-BLE-Combo>

3) Upload *ESP32\_get\_receiver\_mac\_address.ino* to the Atom. Try selecting the ESP32 dev module for the board and upload speed at 115200. After uploading, open the serial monitor, reset the Atom, and copy the MAC address from the serial monitor, which will be need to copy to other sketches.

4) *Upload ESP32\_receiver.ino* to the Atom. Before uploading, make sure the partition scheme from "Default 4 Mb with spiffs" to "minimal spiffs (1.9 MB App with OTA...)"

5) Make sure the Atom is left on (it doesn't need to be plugged into a computer). Upload the *M5StickC\_set\_gyro.ino* to one of the joysticks (Joystick 1). Change the MAC address (beginning of the sketch) as saved in step 3) before uploading. After it is uploaded, hit the big M5 button and do not touch the joystick for 5 seconds. It should tell you when it is finished. This stores the gyroscope offsets into flash memory of the Atom.

6) With the same joystick in step 5), upload the *M5StickC\_sender\_joystick.ino* sketch. Change the MAC address in the sketch.

7) With the other joystick (joystick 2), upload *M5StickC\_sender\_calibration.ino*. Change the MAC address.