Need to make schematics.

Saw the helmet.

Physical diagram – need to make

Parts that we need

|  |  |  |
| --- | --- | --- |
| Subsystem | Parts | source |
| Power Management Subsystem | 3.7V Lithium Ion Polymer Battery adafruit 1200mAh  PLU #258 | 2. Digikey |
|  | Nmos power switch  1. IRF131 2. IRFZ44N  3. MFE201  4. IRF520 | 1. Electronics Services Shop  2. Digikey  3. Electronics Services Shop  4. Electronics Services Shop |
|  | IC battery management  1. TI BQ76930 | 1. Digikey |
|  | Voltage regulator  AMS1117-1.8 | 1.digikey |
| PCB | ESP32-S3-WROOM | 1. Electronics Services Shop |
|  | TSL2561 | 1. Digitkey   https://www.digikey.com/en/products/detail/seeed-technology-co-ltd/101020030/5482599 |