**PROJECT DESCRIPTION**

A black background with a black square

Description automatically generated with medium confidence

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| **Component** | **P/N** | **Supplier** |
| MCU | STM32L476RG | STMicroelectronics |
| SD Card | DM3CS-SF | Hirose Electric Co Ltd |
| USB-C | Your choice | Your choice |
| Mag Encoder | AS5145H | ams-OSRAM USA INC. |
| Motor Driver | G\_SOLTWI25/100SE8S | Elmo Motion Control |
| IMU | BNO085 | CEVA Technologies, Inc. |
| Load Cell | AD22151 | Analog Devices Inc. |
| CAN Transceiver | MCP2551 | Microchip Technology |
| Battery | ??? | ??? |

**Questions**

1. Did you have a particular battery in mind?
2. Can battery polarity be non-dependent?

**Notes**

1. The connectors we use are 44055-x by TE Connectivity.
2. LED indicator.
   1. Solid = power on
   2. Blinking = low power
   3. Anything else, have fun with it
3. Get quotes for populated and unpopulated boards.
4. SD Card and LED(s) should be on top side of board.
5. I will provide desired board outline with mounting holes, connector locations, etc.
6. Let MCU access all INT pins.
7. Include headers for unused pins.