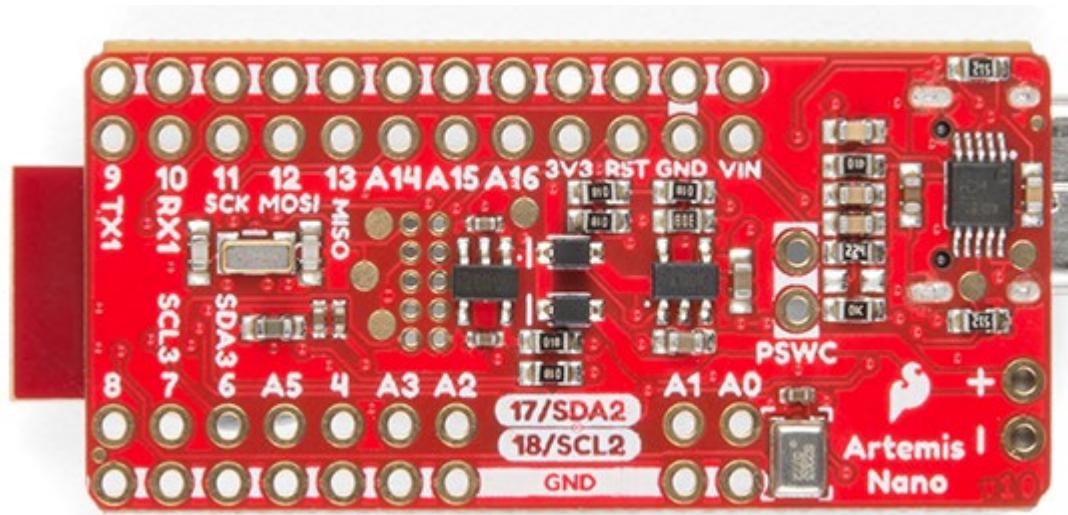


## Lab 3: Sensors

- Connect to TOF sensors and IMU
- Understand and process data
- Route wires and solder connections (get this done during lab!!)
  - Permanent solder joints / Detachable connections?
  - Single core or braided wires?
  - Routing of TOF sensors, IMU, motor drivers, Artemis, battery for motors and battery for the processor
- Mechanical mounting components (optional)

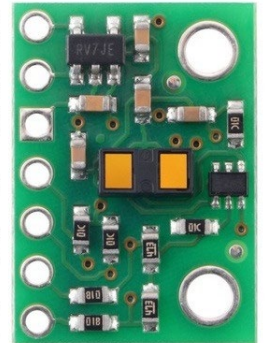
# Lab 3: Sensors (pre-lab)

*Draw the connection diagram that you intend to use*



VDD (2.8V out)  
VIN (2.6–5.5V)

GND  
SDA  
SCL  
XSHUT  
GPIO1



GND  
VMM  
BIN1  
BIN2  
AIN2  
AIN1  
nSLEEP  
nFAULT



GND  
VIN  
BOUT1  
BOUT2  
AOUT2  
AOUT1  
AISEN  
BISEN

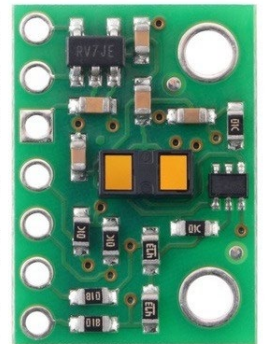
GND  
VMM  
BIN1  
BIN2  
AIN2  
AIN1  
nSLEEP  
nFAULT



GND  
VIN  
BOUT1  
BOUT2  
AOUT2  
AOUT1  
AISEN  
BISEN

VDD (2.8V out)  
VIN (2.6–5.5V)

GND  
SDA  
SCL  
XSHUT  
GPIO1



## Lab 3: Sensors (pre-lab)

*Think about the placement of components and Batteries*

