# Circuit Board Design in EasyEDA

**Due** Apr 22 by 11:59pm **Points** 100 **Submitting** a file upload **File Types** json

For this assignment, you will design a PCB (Printed Circuit Board). This might be the board you will use for your autonomous flight module. It is critical that you get this right, so double and triple check your work. Make sure to do a design review with your peers before submitting your PCB design.

Navigate to **https://easyeda.com/ (https://easyeda.com/)** and download EasyEDA.

Consider viewing at least the following tutorials:

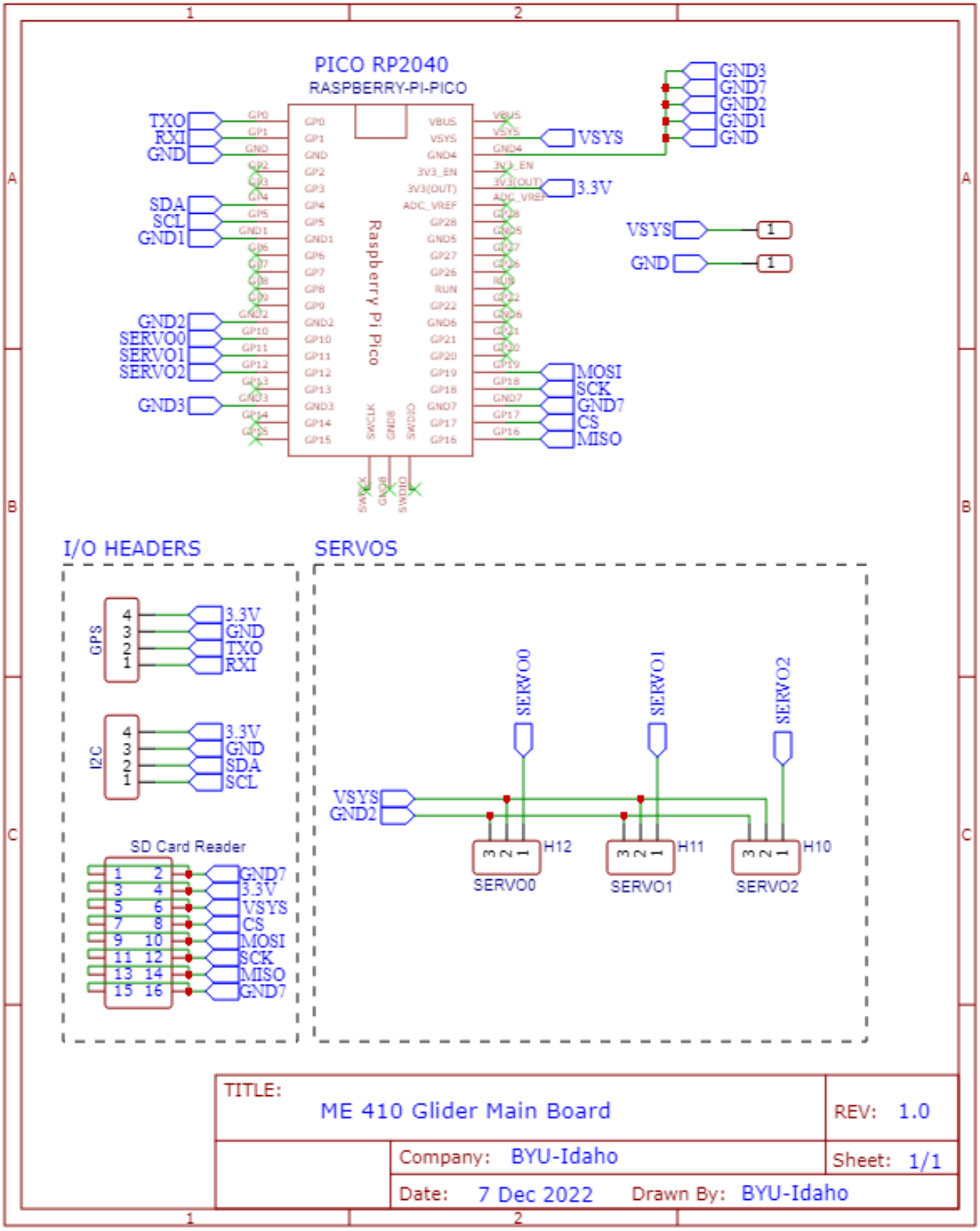
1. **https://docs.easyeda.com/en/FAQ/Editor/index.html (https://docs.easyeda.com/en/FAQ/Editor/index.html)**
2. **https://www.youtube.com/watch?v=MsuR6W-jN5M (https://www.youtube.com/watch?v=MsuR6W-jN5M)**

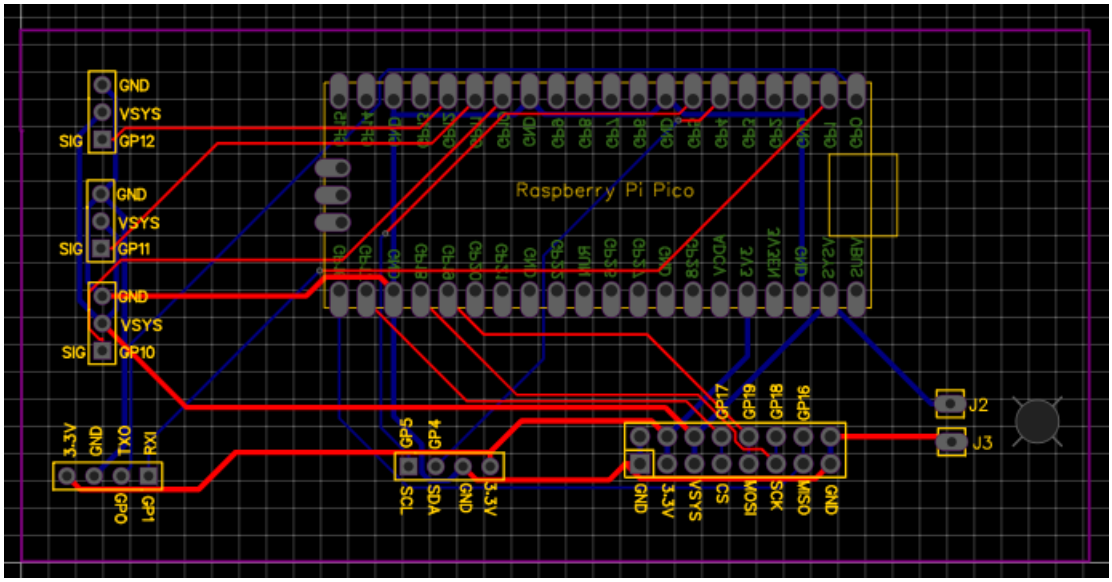
**(https://www.youtube.com/watch?v=MsuR6W-jN5M)**

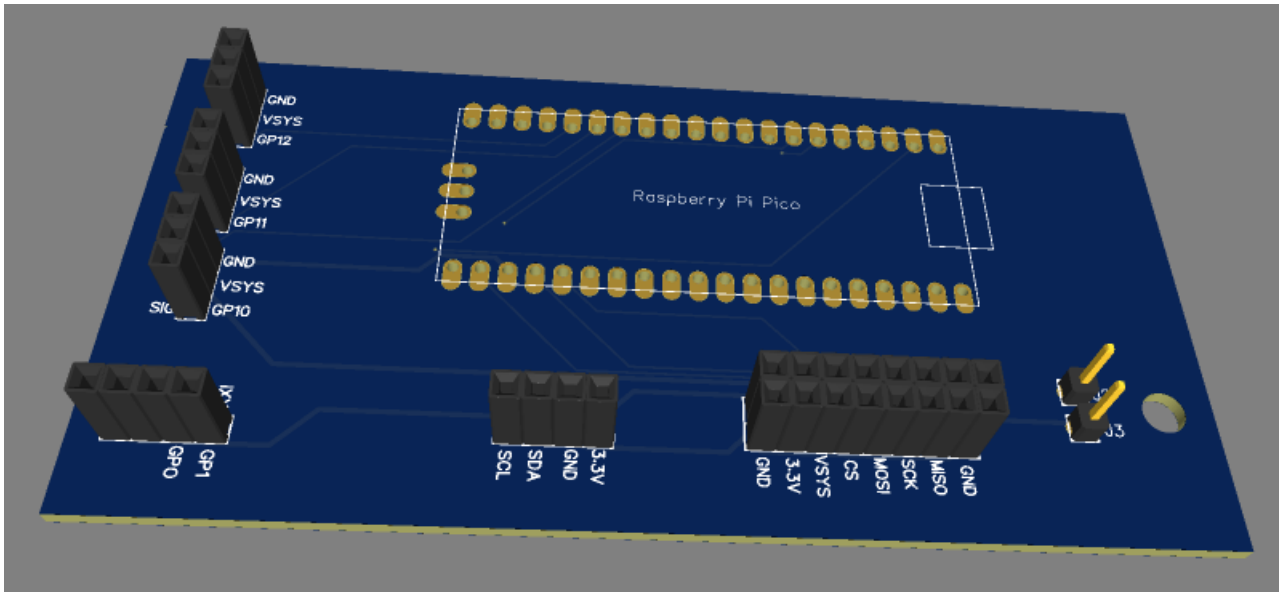
3. **https://www.youtube.com/watch?v=q9fgMhfEzko (https://www.youtube.com/watch?v=q9fgMhfEzko)**

**(https://www.youtube.com/watch?v=q9fgMhfEzko)**

Design a PCB for your flight module. Use the following wiring diagram below. No component (Pico, GPS, SD Card Reader, Servos, etc.) is soldered to the the PCB. Instead, each is mounted to the PCB using pin headers, which are soldered to the PCB. You will need to make sure that the dimensions are correct, or the components will not fit.


PICO RP2040
RASPBERRY-PI-PICO
Raspberry Pi Pico
TXO
RXI
GND
SDA
SCL
GND1
GND2
SERVO0
SERVO1
SERVO2
GND3
VSYS
3.3V
GND7
GND2
GND1
GND
MOSI
SCK
CS
MISO
I/O HEADERS
SERVOS
GPS
I2C
SD Card Reader
SERVO0
SERVO1
SERVO2
H12
H11
H10
TITLE:
ME 410 Glider Main Board
REV: 1.0
Company: BYU-Idaho
Sheet: 1/1
Date: 7 Dec 2022
Drawn By: BYU-Idaho




# What to Submit:

Submit TWO EasyEDA json files:

1. The wiring diagram named WiringDiagram.json
2. The PCB design named PCB.json