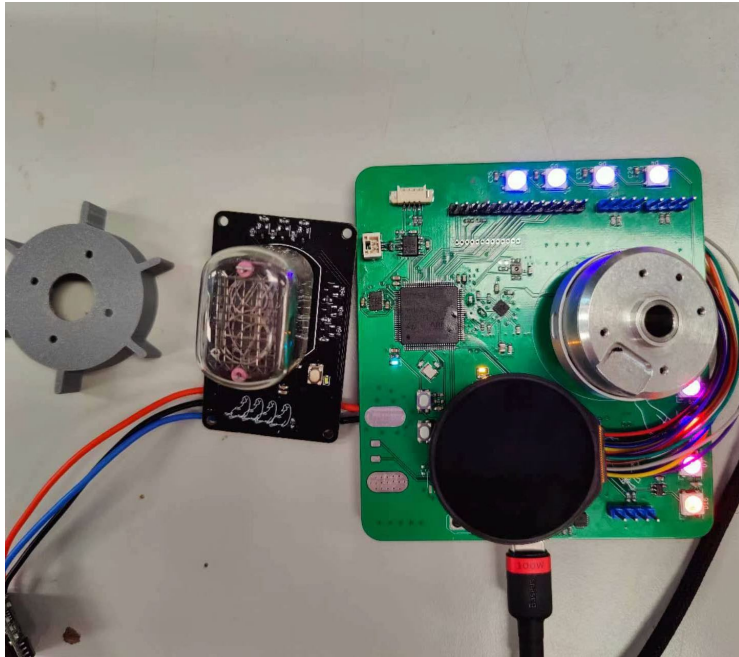


ELEC 3300 Project Summary Sheet

This is a ONE Page Summary Sheet, Content more than 1 page will be deleted.
All the fonts used in this Sheet should be in Times New Roman at 12 points

Group Number	Group 5
Project Title	FOC-Controlled Force Feedback Knob
Name of Student 1	WANG Junzhe
Name of Student 2	ZOU Hetai
Name of Student 3	If applicable

Please attach ONE photo of your project below



Please list the functions of your project in point form

- FOC Algorithm Close loop Controlled Motor as knob (Algorithm)
- Magnetic Hall effect sensor feedback (SPI)
- Brushless DC motor driver (Half Bridges Driver)
- Implement our own ESC (SVPWM)
- Bluetooth and usb-ttl controlled (UART)
- Usb-C PD power delivery with buck converter (GPIO)
- Power adc sampling (ADC)
- WS2812 LEDs (PWM)
- IMU wake detection (SPI)
- LCD touch screen (SPI + I2C)
- Smooth and Fast Refresh UI (Double-Buffer DMA)
- Humidity and Temperature Sensor (I2C)