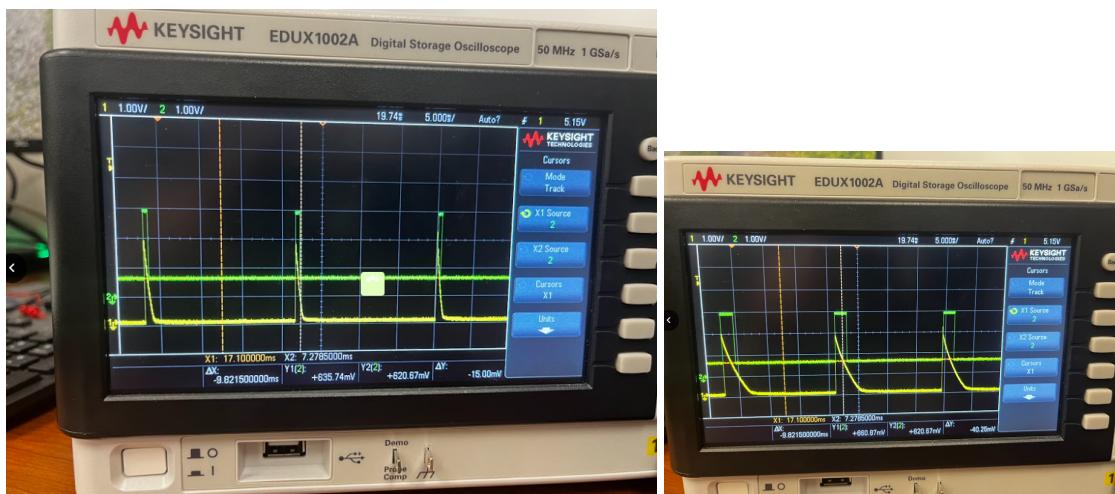
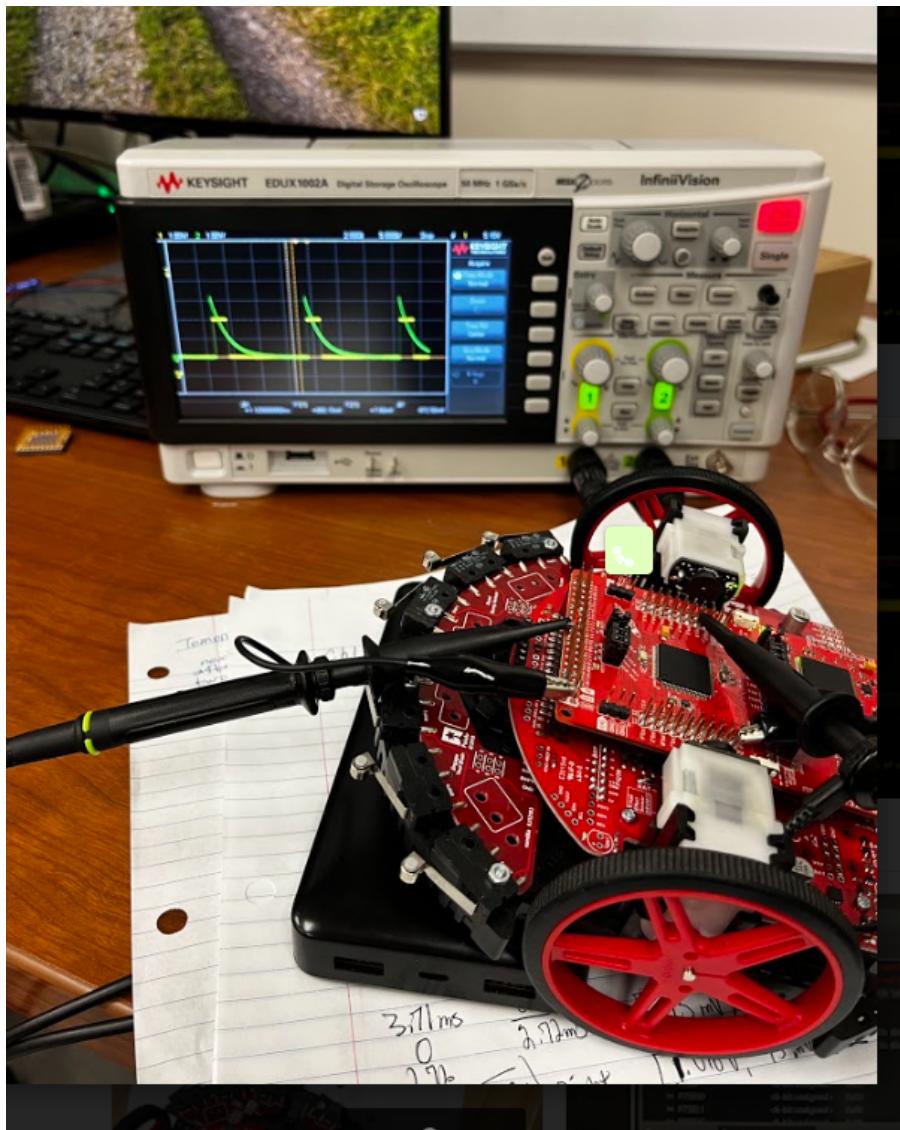


https://drive.google.com/file/d/1h5UZx8JWH2YytmUM_PMW_xqsrz4qiBiL/view?usp=sharing

Video showing brokenness, tested light sensor on HW debugger and found the right side never lit up. Confusing as I thought they were wired even odd. Regardless, got a new sensor, found time after the race to get measurements.

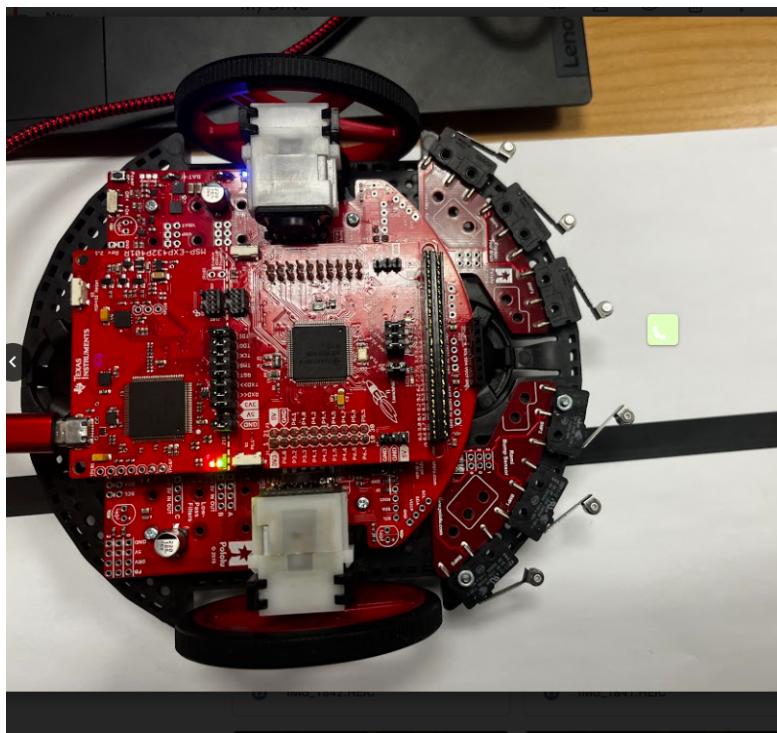


Debug Expressions Registers

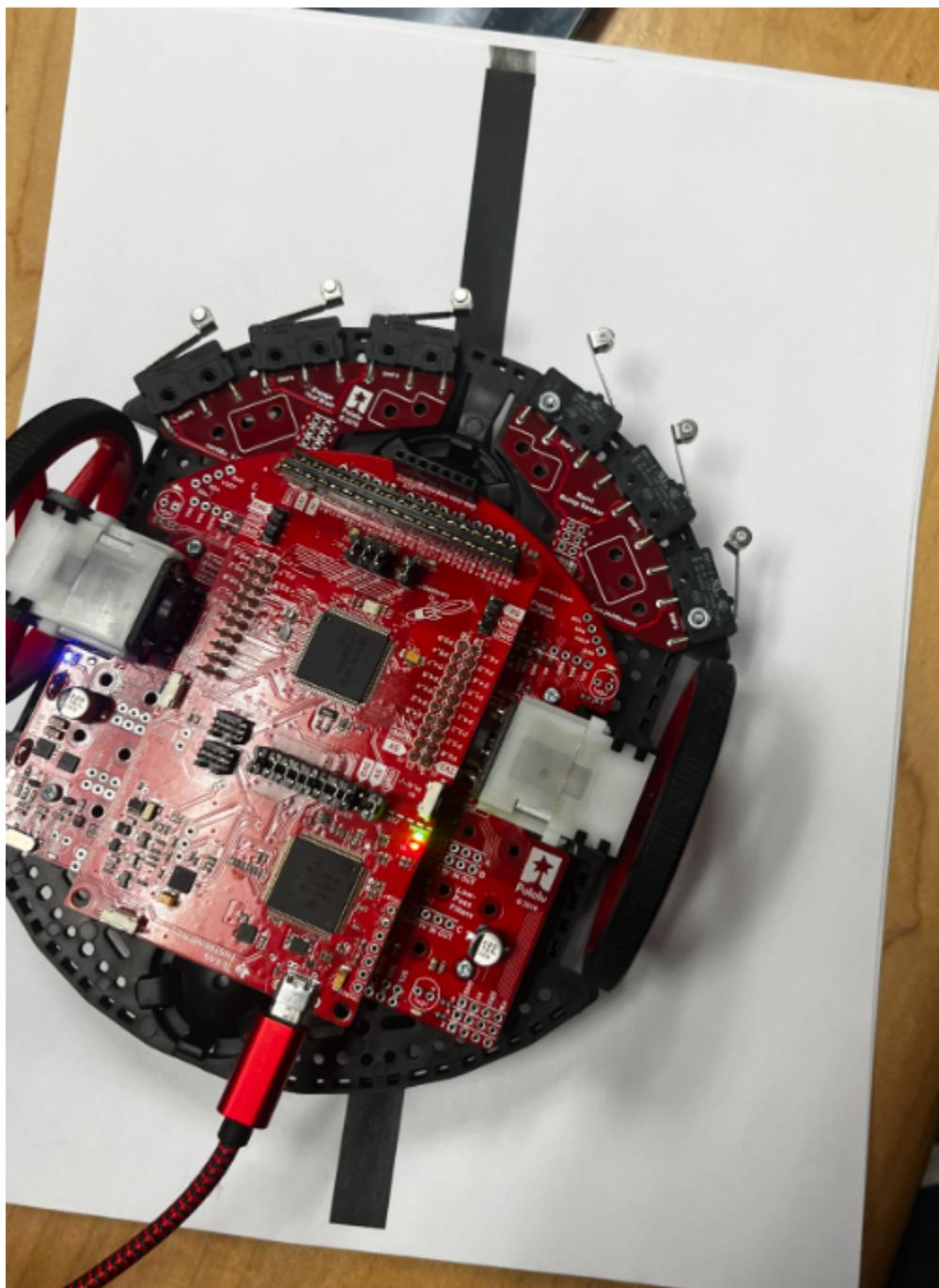
Expression	Type	Value
res	unknown	identifier not found: res (Binary)
x	unknown	identifier not found: x
Data	unsigned char	00000011b '\x03' (Binary)
P7	Register Group	
Position	int	-57200
+ Add new expression		

Reflectance.c Lab06_GPIOmain.c

```
101 // Clock_Pt3Delay(100);
102 // }
103 //}
104
105 // PT3
106 //
107 int32_t Position; // 332 is right, and -332 is left of center
108 int main(void){
109     Clock_Tinit48MHz();
```



```
0x          unknown      identifier not found: x
0x Data     unsigned char 00001000b '\x08' (Binary)
> P7       Register Group
0x Position int
+ Add new expression
```



Center, Data reflectancw_Read()

i . i lost the photos for my measurements to but the low side was around 10ms and the high end was around 250ms.

ii. ~1.7V - 0V, low '0' time

iii. ~3V to 1.7V , high '1' time

iv. The sensor readings were accurate to the measurements provided on the first reading but depending on how updated the sensor gets. If it misses readings it gets off course.

v. The function is non monotonic meaning it has values that increase AND decrease. As opposed to something that solely increases OR decreases.

My IR sensor was broken for a long while. By the time we realized it was a hardware issue we were deep into the Race. I know its late and points are probably not on the table but the task was completed.