OLED\_Display\_Angle();

OLED\_Display\_Light\_Signal();

Light\_Servo\_Calculations(UP\_Data, DOWN\_Data, LEFT\_Data, RIGHT\_Data);

*PWM\_Set\_Duty()*

*If not pressed set* debug\_Mode *to* False *and call functions depending on* loopTracker

*Use While Loop to Check if Center Button is Pressed. Call functions then call usleep(1000)*

void LightFollow()

void PWM\_CALIBRATE()

Controls PWM1 duty cycle with input from Switch[3:0] and PWM2 duty cycle with input from Switch[7:4] output

void sample(int FIT\_Tracker, uint16\_t switchStateString)

*Calls* set\_ADC\_channel() *or* read\_ADC() *or calls nothing depending on* FIT\_Tracker *and* switchStateString. *Uses* read\_ADC() *to update global variables* UP\_Data, DOWN\_Data, LEFT\_Data, *and* RIGHT\_Data. *Do*es not perform action if debug\_Mode *is* True

void FIT\_Handler()

*If Pressed set* debug\_Mode *to True*

void set\_ADC\_channel(enum)

u16 read\_ADC()

void AXI\_Timer\_initialize()

*Enable FIT Interrupt*

void do\_init()

void main()