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ELEN 123, Mechatronics

Laboratory 6: Control speed/distance and Wall Positioning

*volatile int count = 0, sw = 0;*

*void setup()*

*{*

*pinMode(2,INPUT\_PULLUP);*

*pinMode(3,INPUT\_PULLUP);*

*attachInterrupt(0,isr0,RISING);*

*Serial.begin(9600);*

*}*

*//want distance traveled so just increment count on each interrupt*

*void isr0(void){*

*count++;*

*sw = 1;*

*}*

*void loop()*

*{*

*if(sw == 1){*

*Serial.print(count\*(PI/180)\*10); //printout distance traveled*

*Serial.println("meters traveled");*

*sw = 0;*

*}*

*}*