**Larson Scanner**

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**RBT173 – Introduction to Microcontrollers**

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This project was a Larson Scanner. It is several lights in a row that blink in succession. They generally blink from left to right and then right to left. I found this project fun and relatively easy. In my video I have 6 LED’s. I did generally follow the professor as he demonstrated it in class. I did have to modify the code slightly to make mine work correctly, but I did get the lights to turn on and off at the appropriate times. The sketch I have is from Tinkercad. I remember having to do a schematic in the last class and I had a devil of a time doing it in Word.

This is the code from Arduino. It goes with the video.

// C++ code

//

int delayTime = 90;

void setup()

{

for (int i=2; i<8; i++)

{ pinMode(i, OUTPUT);

}

}

void loop()

{

for (int i=2; i<8; i++){

digitalWrite(i, HIGH);

if (i==2){

digitalWrite(7, LOW);

} else {

digitalWrite((i-1), LOW);

}

delay(delayTime);

}

for (int i=7; i >=2; i--){

digitalWrite(i, HIGH);

digitalWrite ((i+1), LOW);

delay(delayTime);

}

}

<https://youtu.be/8H3chioXWGk> - Larson scanner

the above link will take you to the video.