**Instituto Federal Fluminense Campus Quissamã**
Curso Integrado Informática
Professor: Renato
Turma: 2° Ano de Informática
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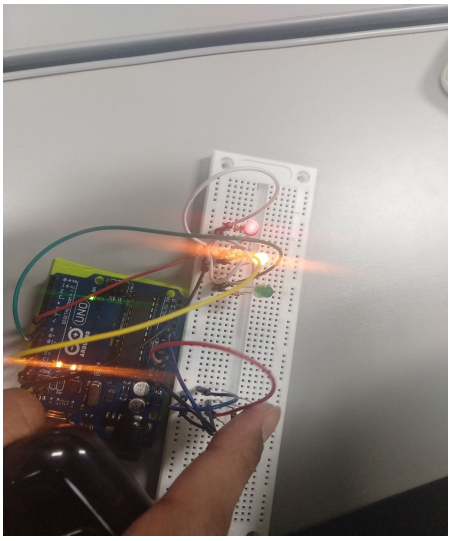
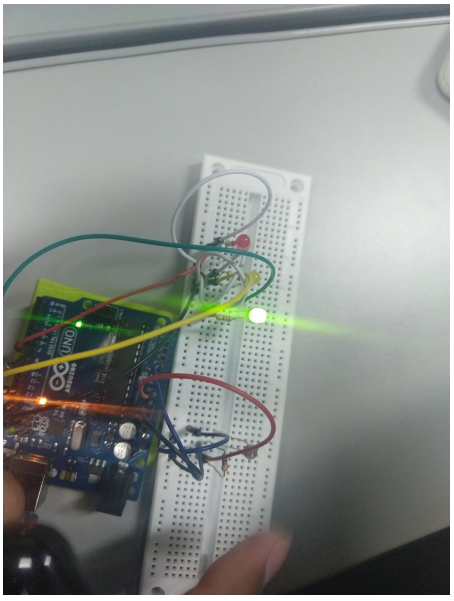
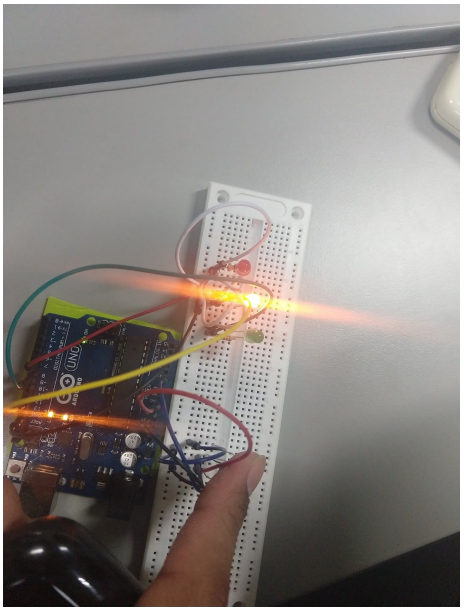
Assunto: Relatório

**IMAGENS SINAL DE TRÂNSITO COM FOTORESISTOR - ARDUINO**







**CÓDIGO DO PROJETO**

```
int value = 0;
int pin = A0;

void setup() {
  Serial.begin(9600);
  pinMode(12, OUTPUT);
  pinMode(8, OUTPUT);
  pinMode(7, OUTPUT);

}

void loop() {
  value = analogRead(pin);
  Serial.println(value);
  if(value >= 0 & value <= 15){
    digitalWrite(8, LOW);
    digitalWrite(7, LOW);
    digitalWrite(12, HIGH);
  }else if(value >= 16 & value <= 40){
    digitalWrite(12, LOW);
    digitalWrite(7, LOW);
    digitalWrite(8, HIGH);
  }else if(value >= 41 & value <= 100){
    digitalWrite(12, LOW);
    digitalWrite(8, LOW);
```

```
    digitalWrite(7, HIGH);
  }
  delay(300);
}
```

**COMPONENTES**

| Material | Quantidade |
|---|---|
| Arduino Uno R3 | 1 |
| LDR | 1 |
| Resistor (220 Ω ±5%) | 4 |
| Cabos | 11 |
| Protoboard | 1 |
| LED | 3 |