

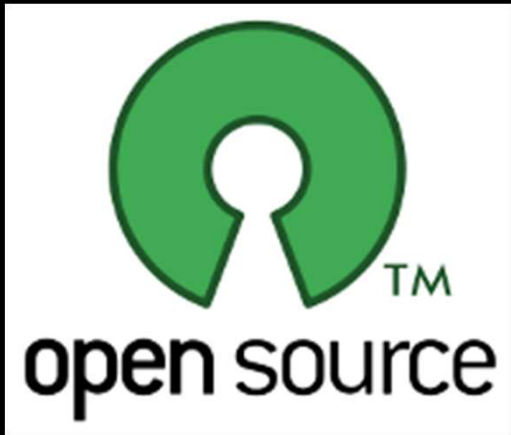


Team Chihuahua

Gabriel Haupt

David Lussmann

Jill Scheidegger





**Load-shedding
ALERT**




As per Eskom's load-shedding announcements

HACKTERIA

Page Discussion Read View source View history Search Hackteria Wiki

Medizintechnik DIY



Contents [hide]

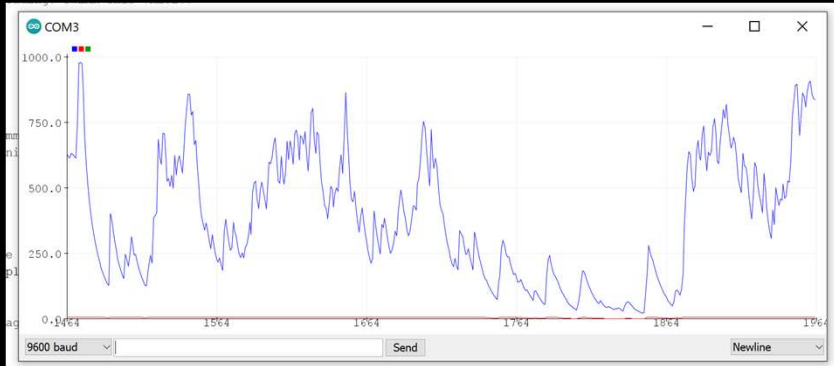
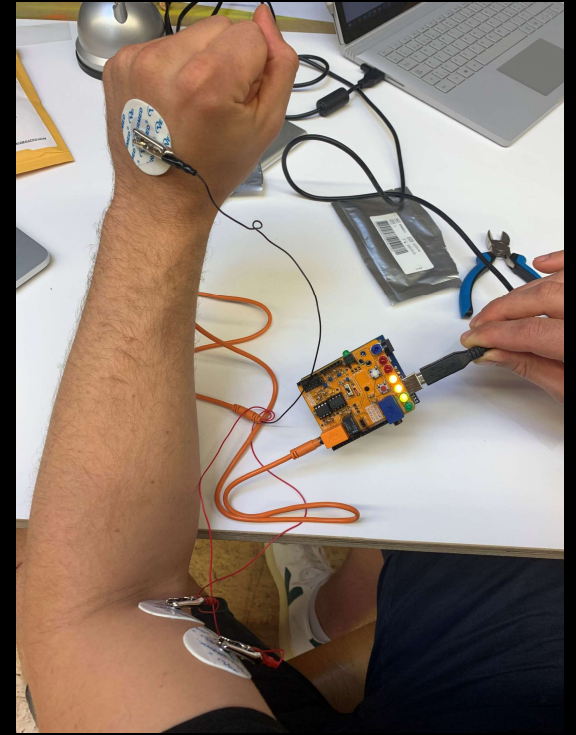
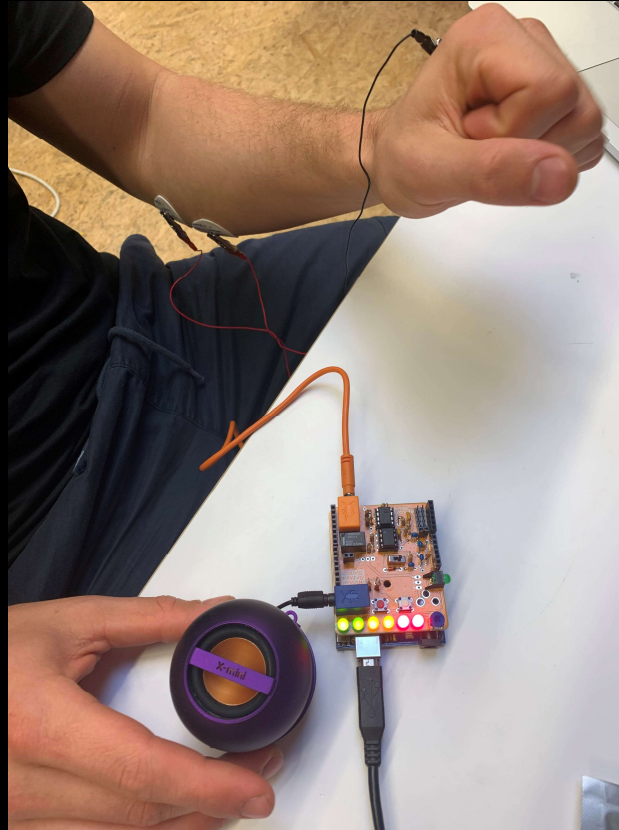
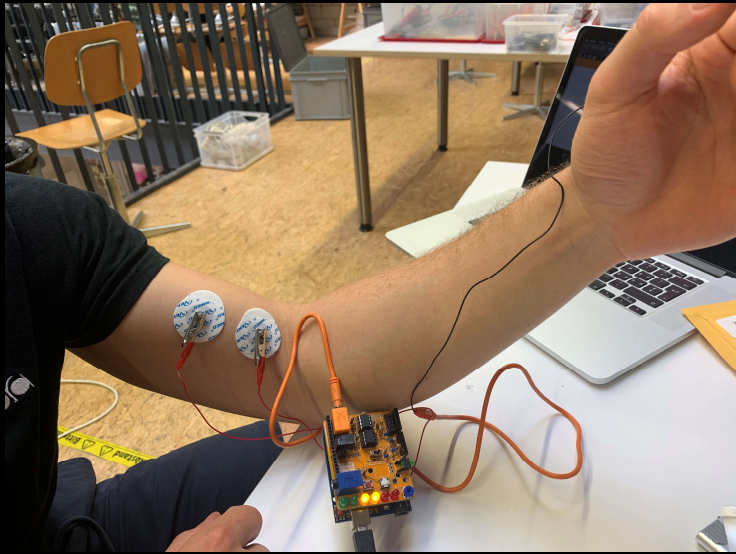
- 1 Kurzbeschreibung
- 2 Covid-19 Schutzmassnahmen
- 3 Location(s)
- 4 Schedule
- 5 Schlusspräsentationen / Demos Zeitplan
- 6 Wird nicht durchgeführt... Skill Share Sessions
- 7 Student Teams
- 8 Testat
- 9 DIY-MedTech Resources
- 10 Pflichtlektüre & Videos
- 11 Weiterführende Links und Literatur
- 12 How to use this wiki

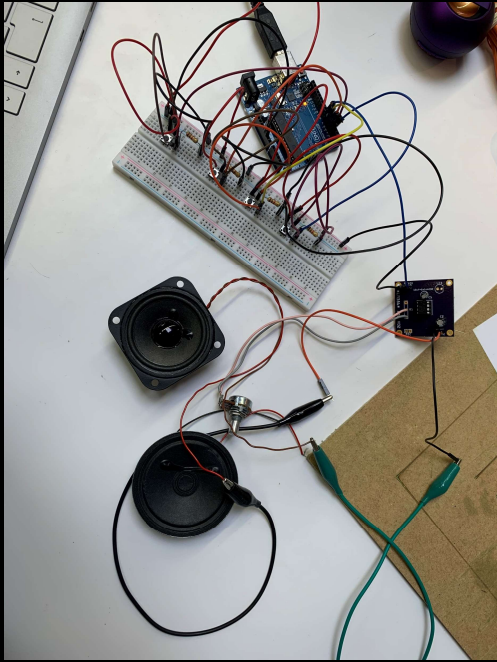
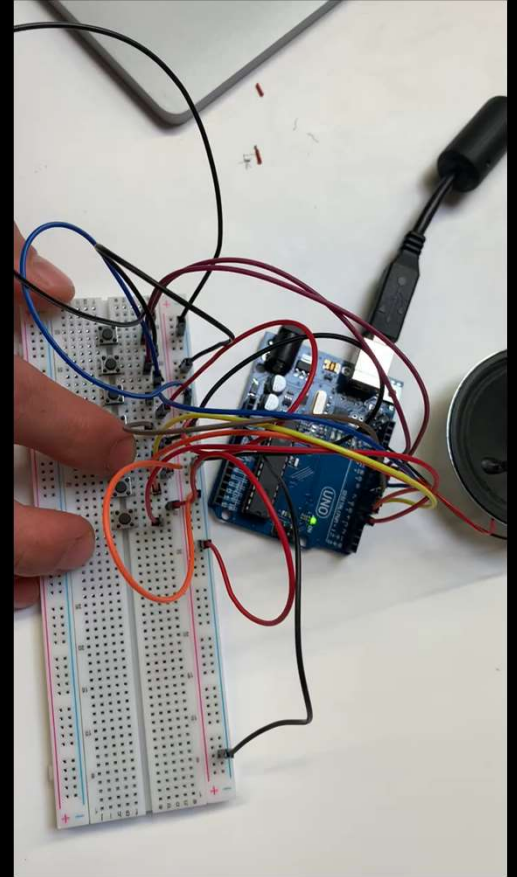
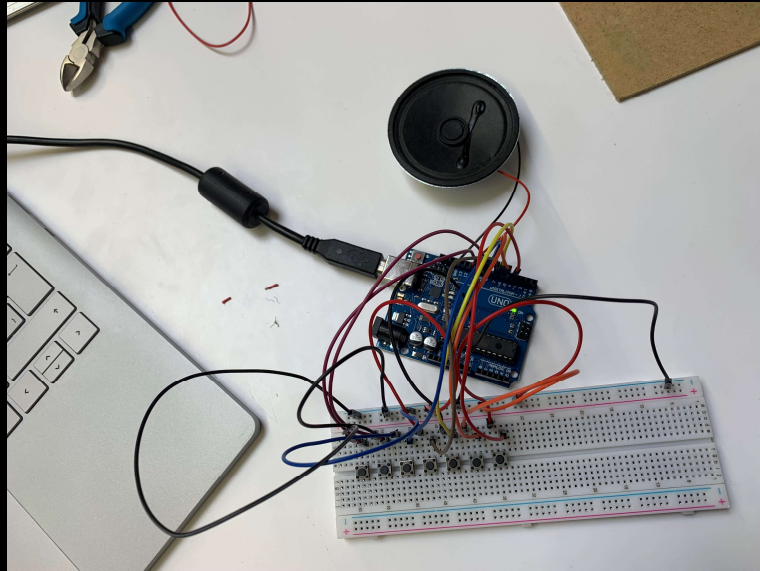
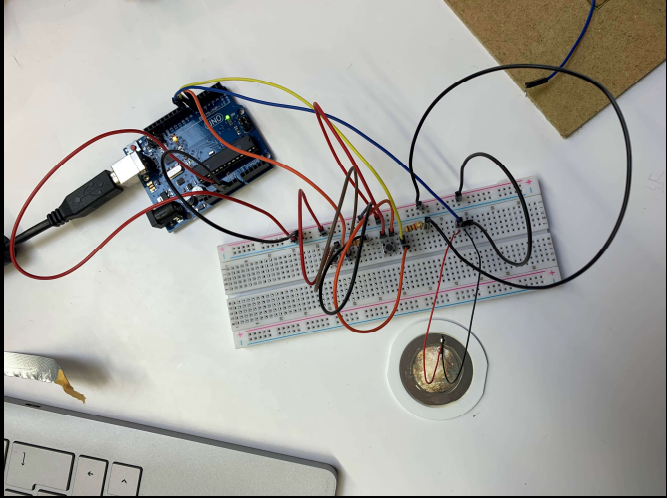
Kurzbeschreibung

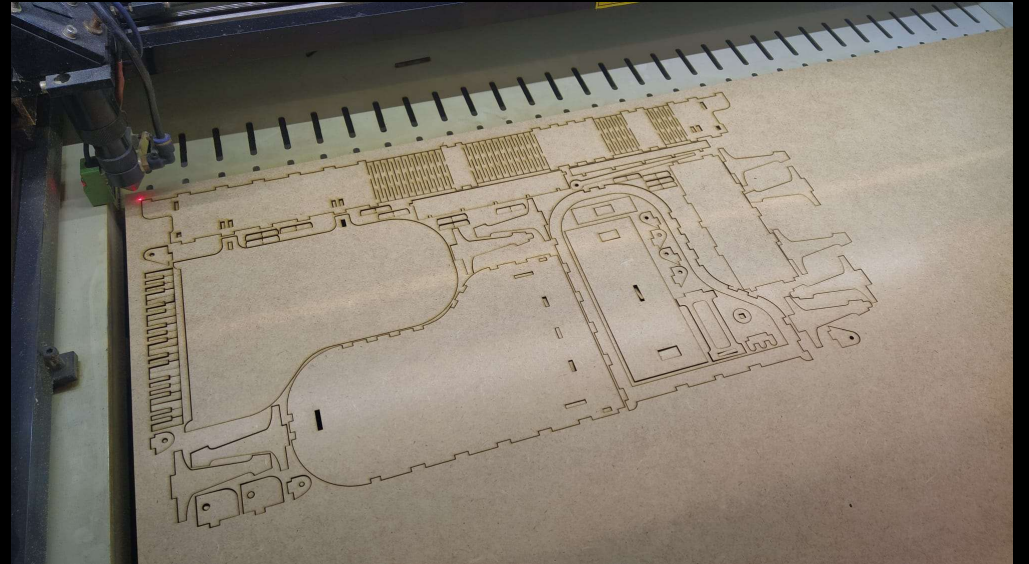
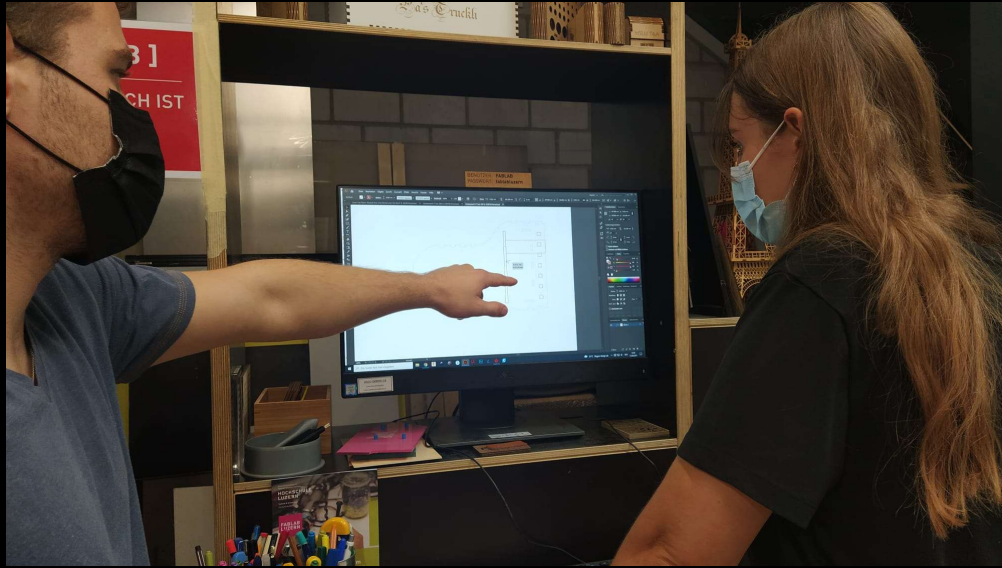
Das Modul verbindet Anwendungen der Medizintechnik mit Do It Yourself (DIY) Ansätzen. Dadurch wird das tiefere Verständnis von Medizintechnischen Geräten durch einen direkten, interdisziplinären und möglichst selbstgesteuerten Zugang gefördert. Basierend auf verschiedenen elektro-physiologischen Messmodulen (EMG, EKG, EOG, EEG) entwickeln die Studierenden im Team Ideen für innovative Projekte. Erste Prototypen werden mit den Mitteln der Digitalen Fabrikation hergestellt und getestet.

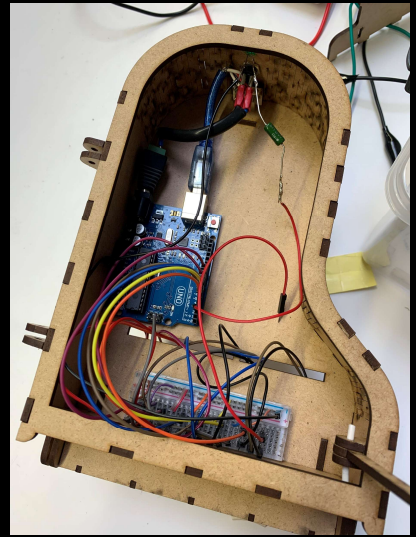
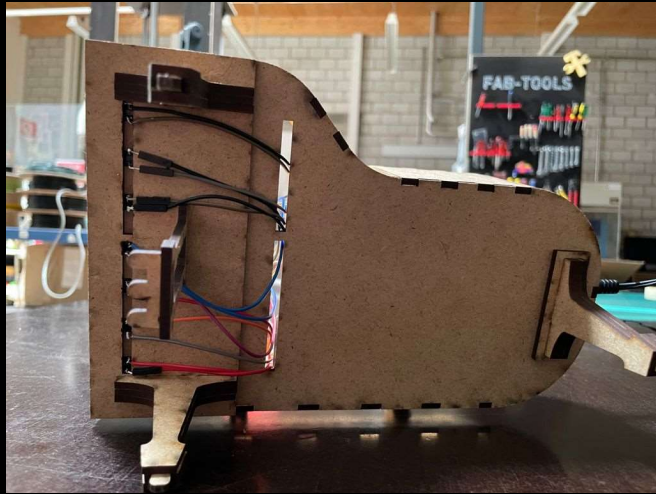
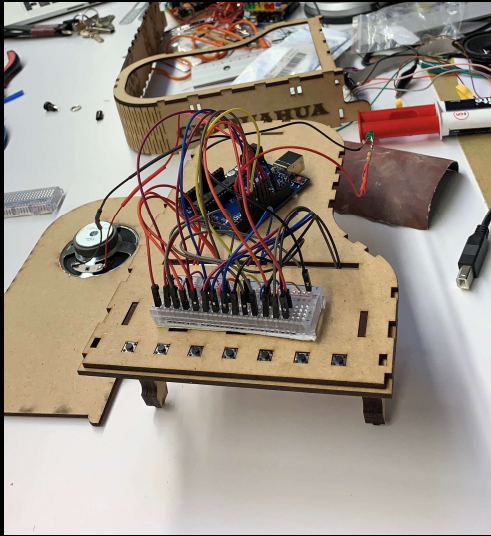
[Medizintechnik DIY](#)

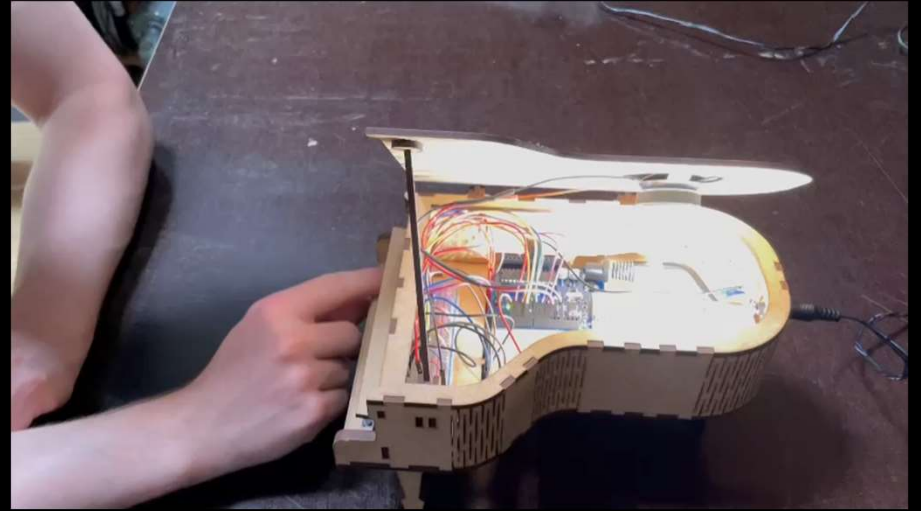













```

void setup()
{
  pinMode(3, OUTPUT); // LED an Pin 3

  pinMode(LED, OUTPUT);
  pinMode(C, INPUT);
  digitalWrite(C,HIGH);

  pinMode(D, INPUT);
  digitalWrite(D,HIGH);

  pinMode(E, INPUT);
  digitalWrite(E,HIGH);

  pinMode(F, INPUT);
  digitalWrite(F,HIGH);

  pinMode(G, INPUT);
  digitalWrite(G,HIGH);

  pinMode(A, INPUT);
  digitalWrite(A,HIGH);

  pinMode(B, INPUT);
  digitalWrite(B,HIGH);

  digitalWrite(LED,LOW);
}

void loop()
{
  // LED immer an (PIN 3)
  digitalWrite(3, HIGH);

  while(digitalRead(C) == LOW)
  {
    tone(Buzz,T_C);
    digitalWrite(LED,HIGH);
  }

  while(digitalRead(D) == LOW)
  {
    tone(Buzz,T_D);
  }
}

```

Pulse Width Modulation



