



# WIRE WIZARD

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# PROBLEMS

**01 Human error**

**02 Waste**

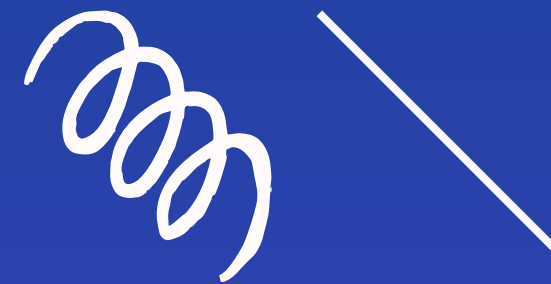
**03 Physical Strain**



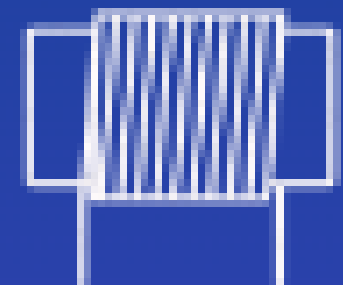
02

01

# PROJECT OBJECTIVES



Wire with  
different  
customizations

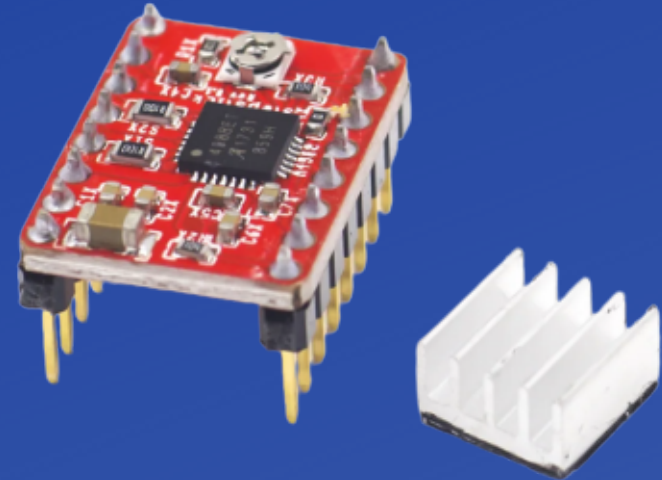


Inductors with  
specific number  
of rolls

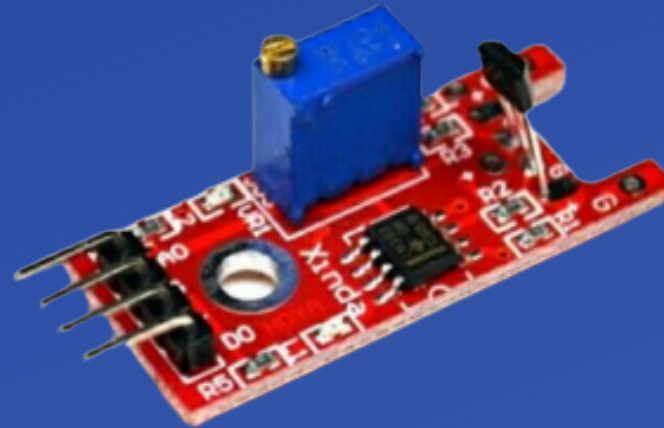
# DESIGN AND HARDWARE



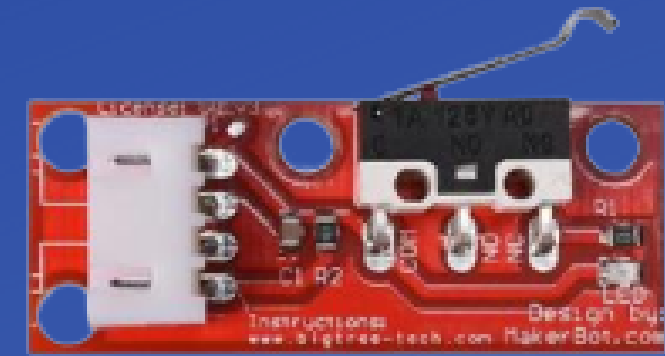
STEPPER MOTOR



A4988 DRIVER



HALL EFFECT  
SENSOR



LIMIT SWITCH



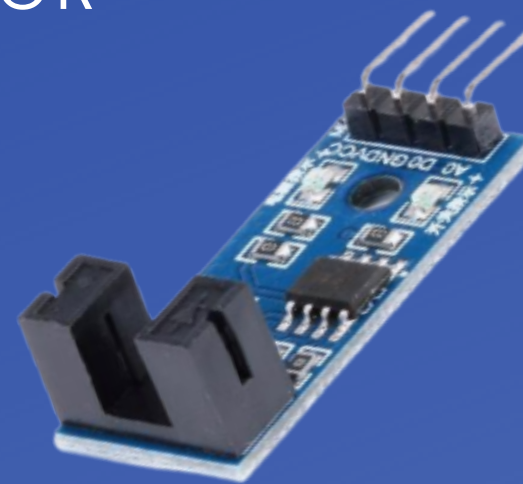
ARDUINO MEGA



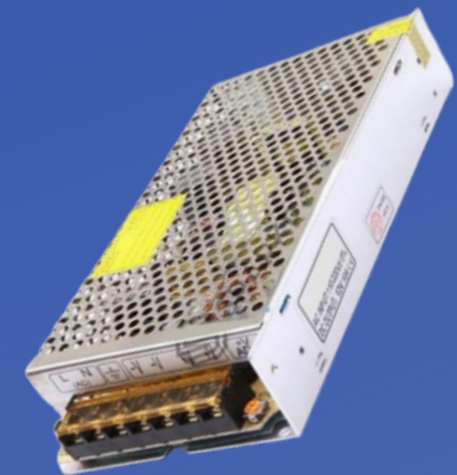
ESP32



VOLTAGE  
REGULATOR

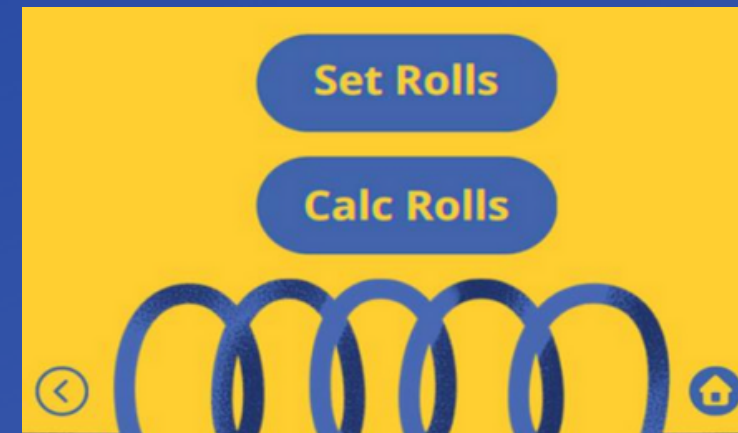
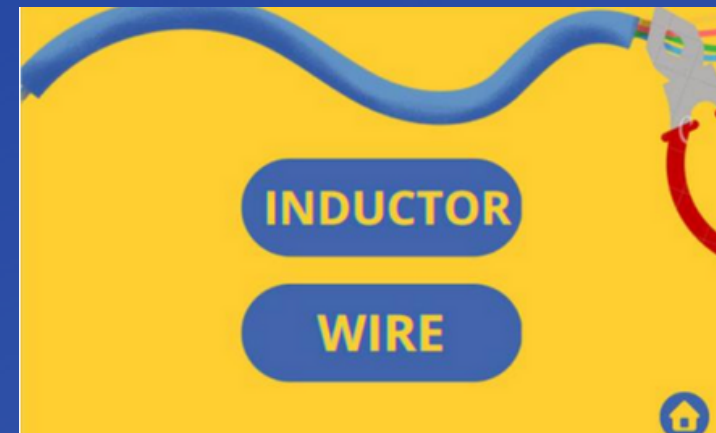


IR  
OPTOCOUPLER

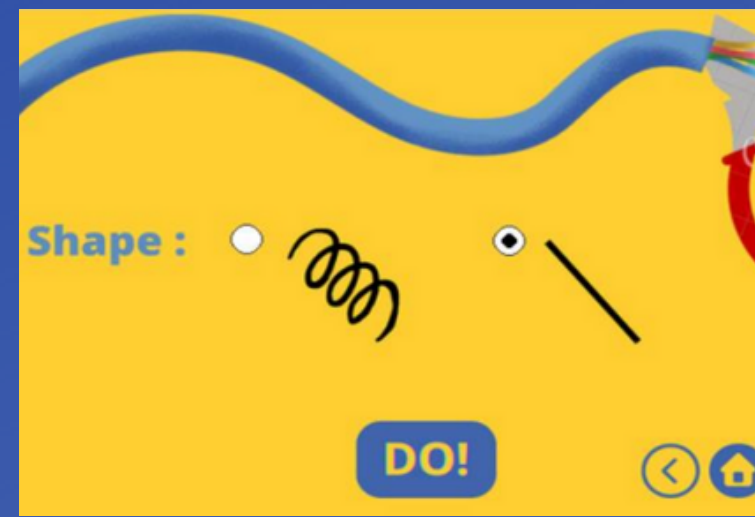
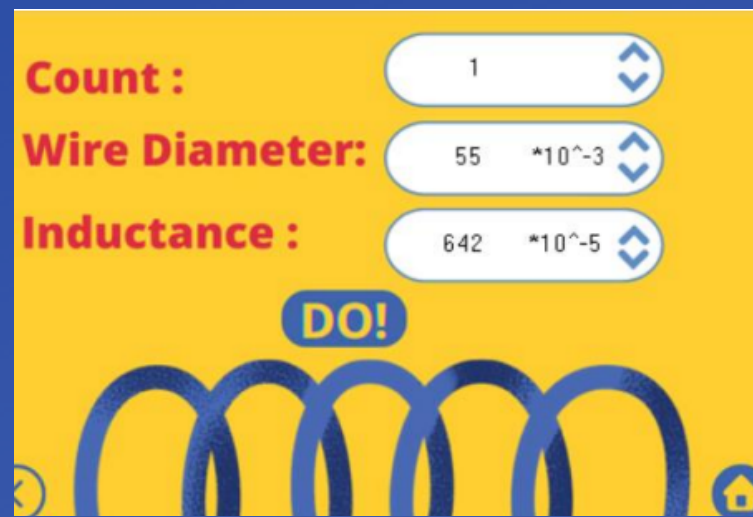


POWER  
SUPPLY

# DESIGN AND HARDWARE



NEXTION HMI



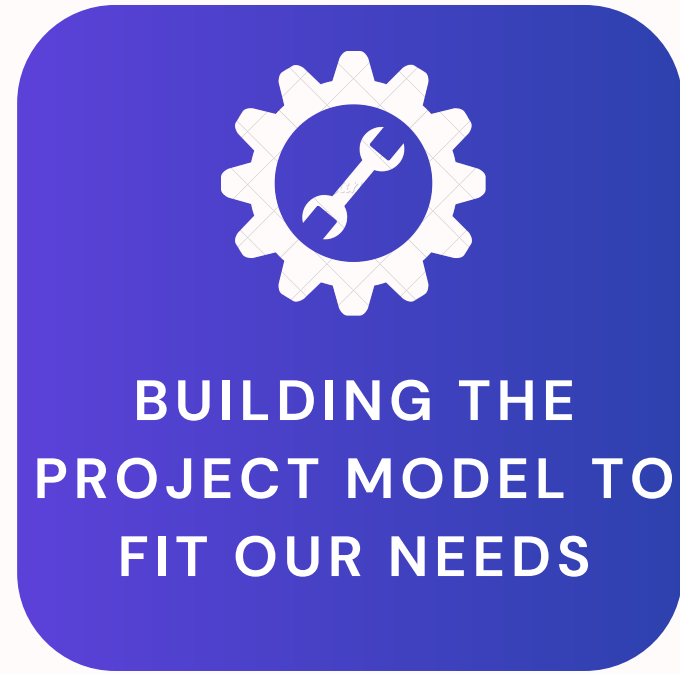


# WIRE CUTTING FUNCTIONALITY



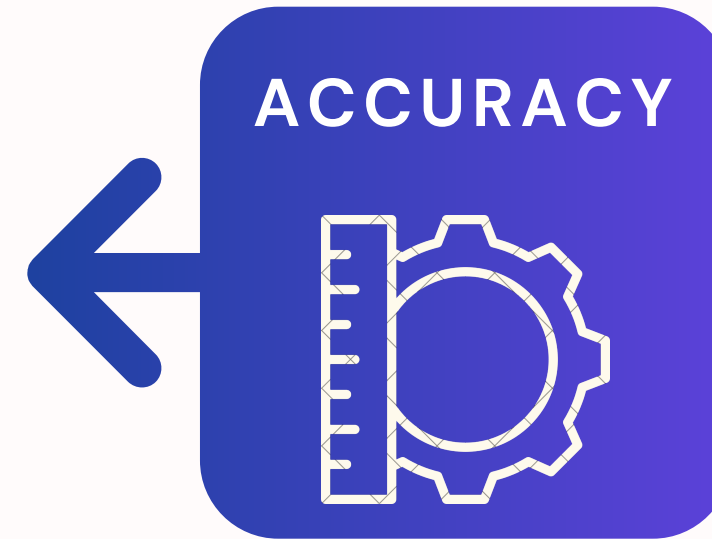
# INDUCTOR WINDING FUNCTIONALITY

BUILDING THE  
PROJECT MODEL TO  
FIT OUR NEEDS



# CHALLENGES

FEBRUARY



# **FUTURE IMPROVEMENTS**

- Machine Learning Integration**
- Expanded Wire Compatibility**

**THANK'S FOR WATCHING**

