# Project:
# Life-Detector Pro

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The LIFE EMBEDDED TEAM

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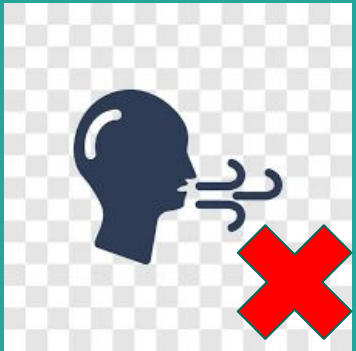
# In order to solve infants suddenly not breathing



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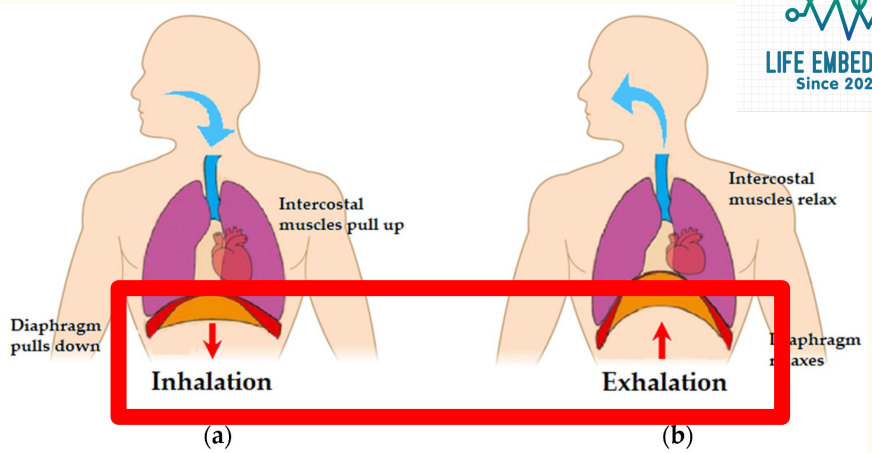
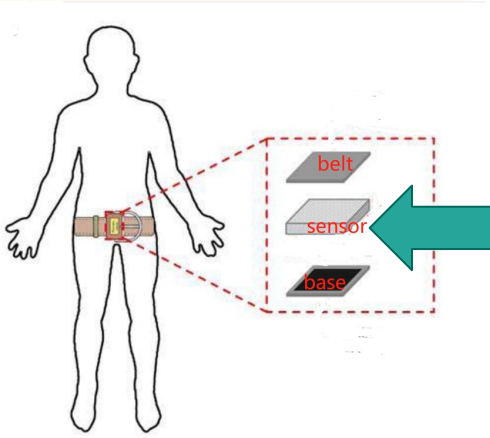
# The "LIFE-DETECTOR" Device

# Procedure

1. Breathing cause stomach expand or contract
2. The force between clothing (belt/pants) and stomach changes
3. FlexiForce Sensor detect 1-4000N of force and is flexible and precise on small force detection
4. Change in R_sensor -> ADC -> signal processing -> give output (neopixel/Alarm)



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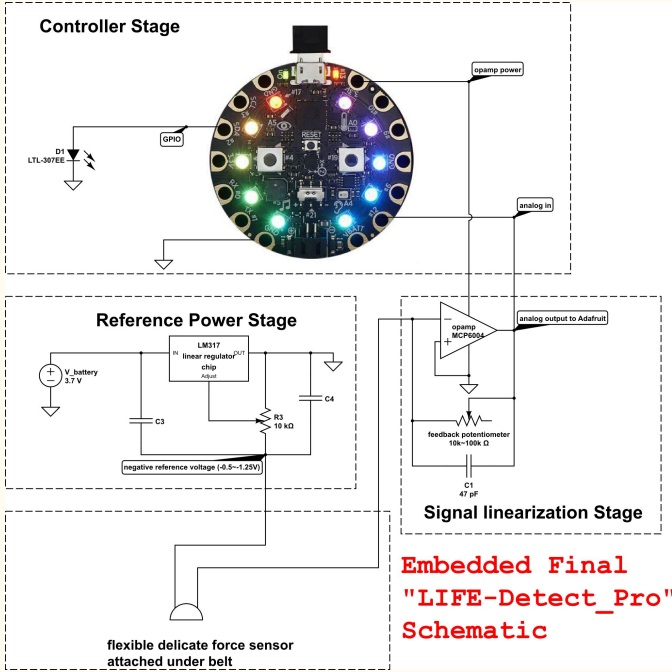
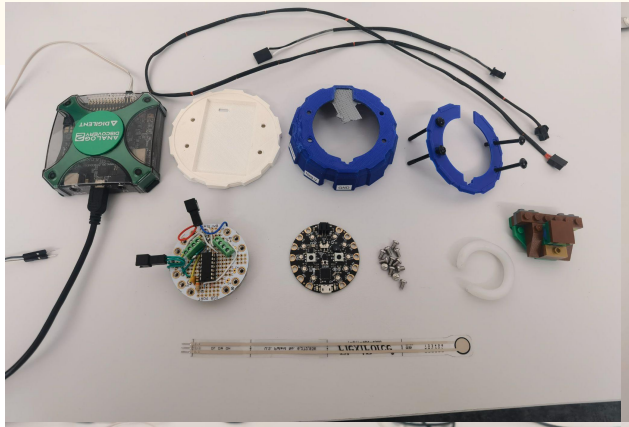
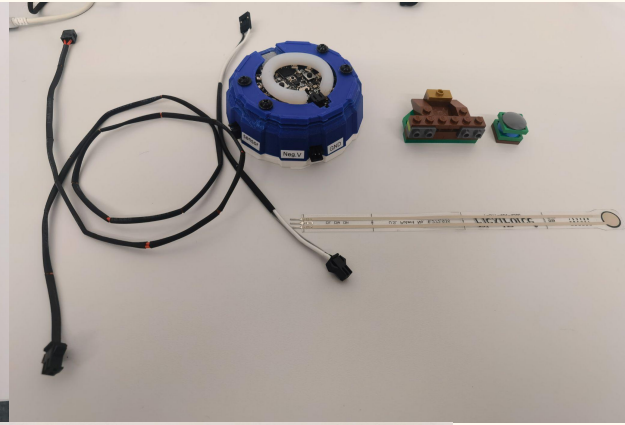
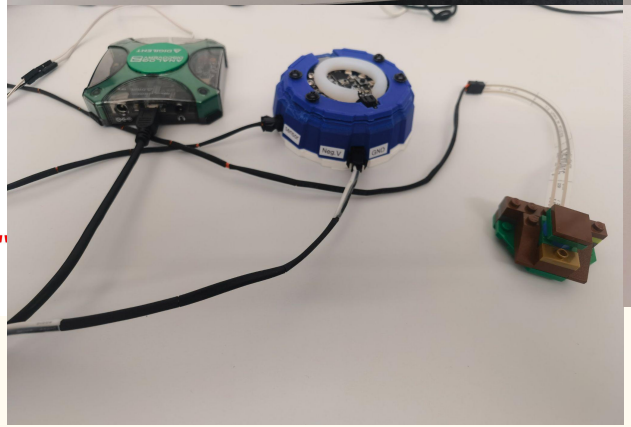
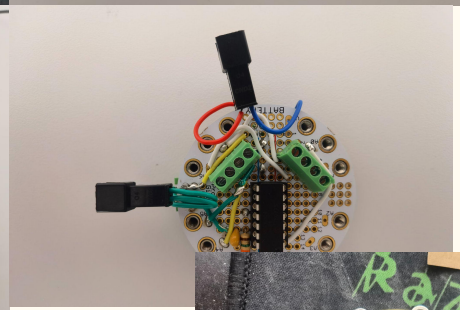


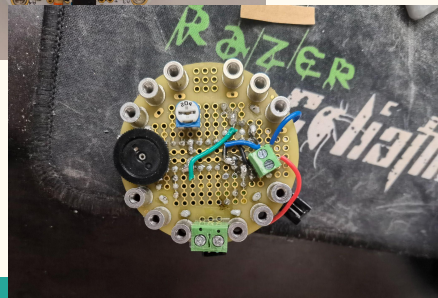

Embedded Final "LIFE-Detect_Pro" Schematic



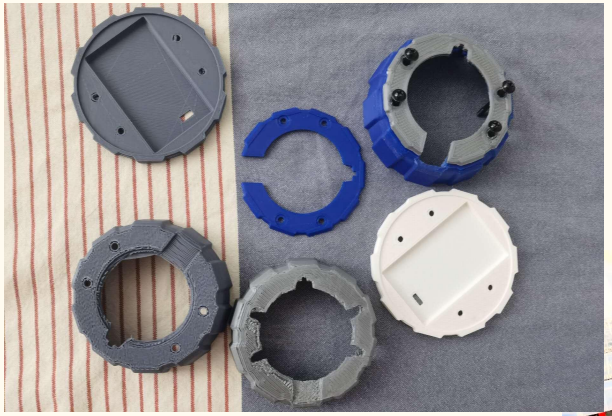


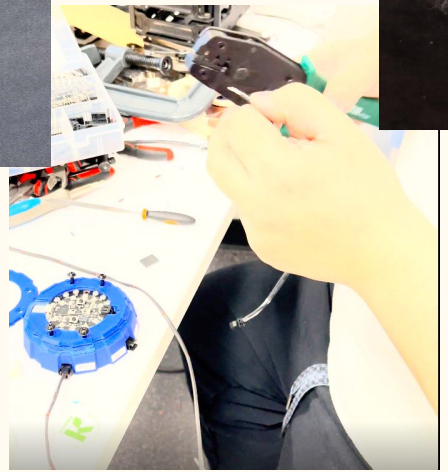


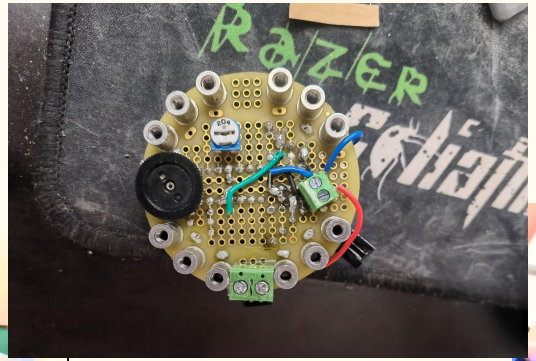


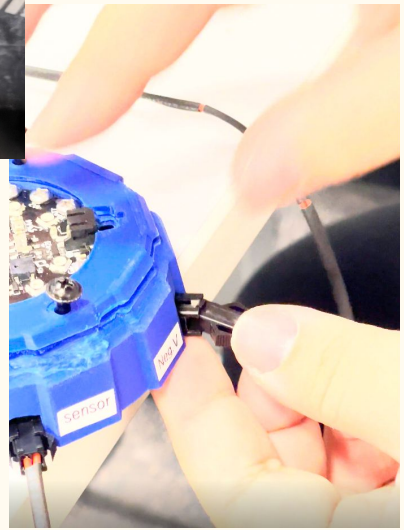


# Manufacturing-Soldering/ 3D Printing

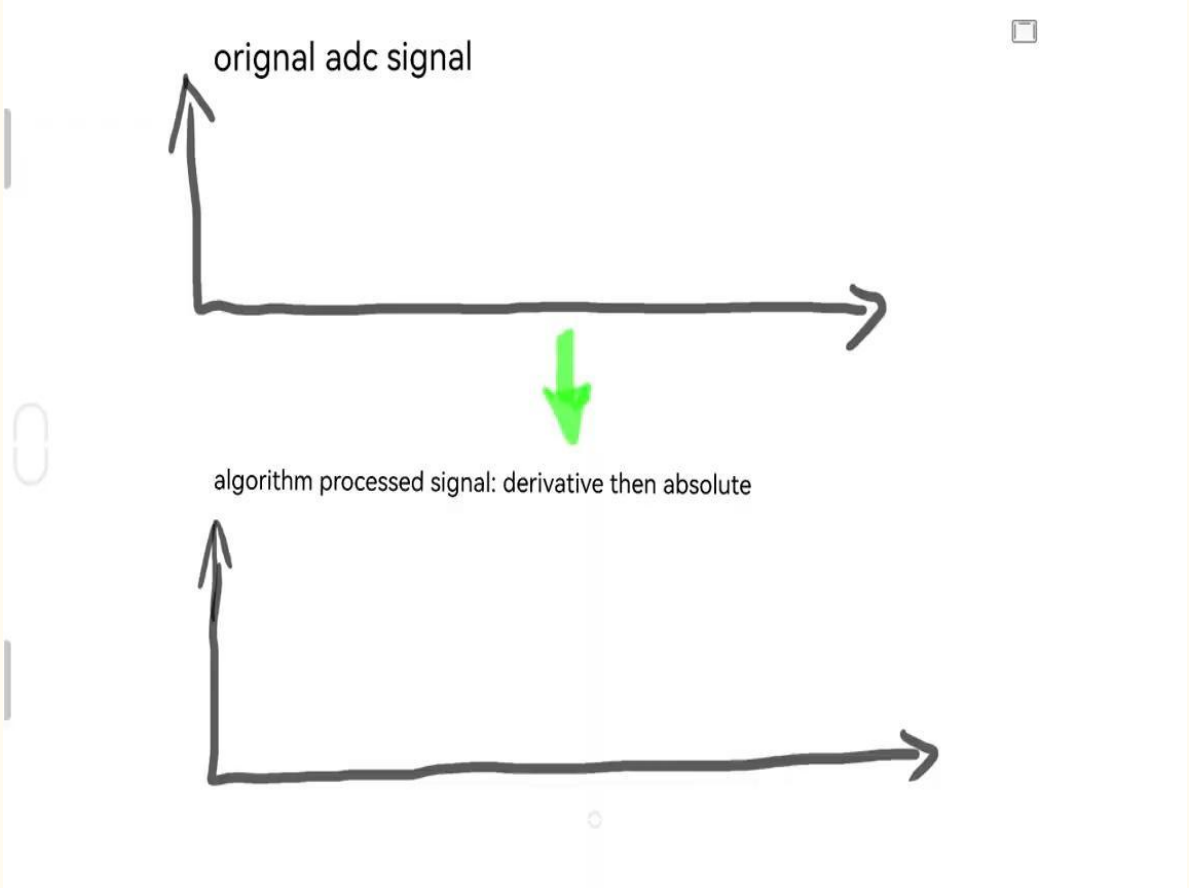








# Algorithm explanation



# VIDEO DEMO

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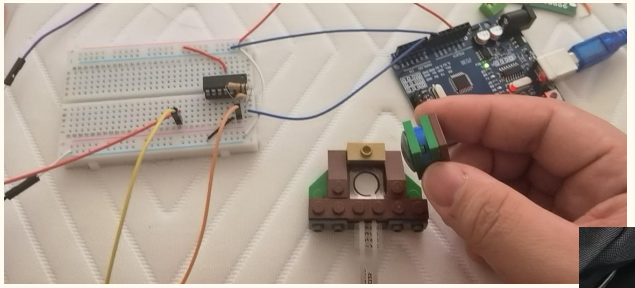
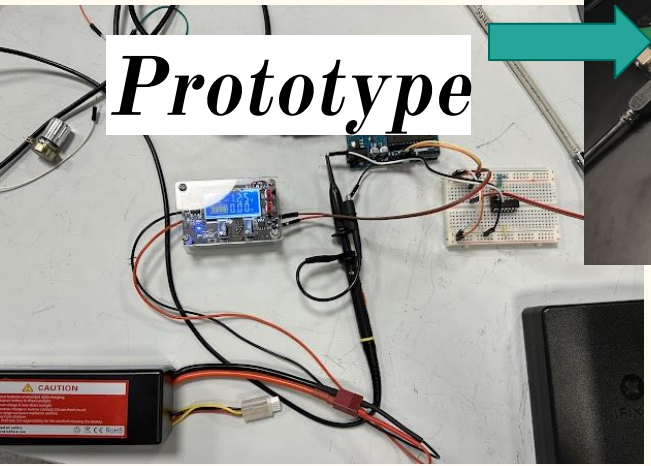
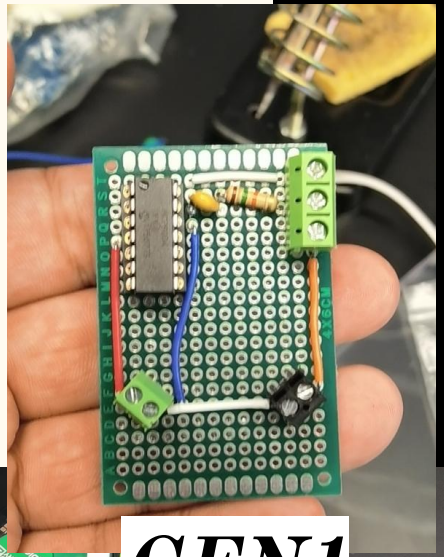
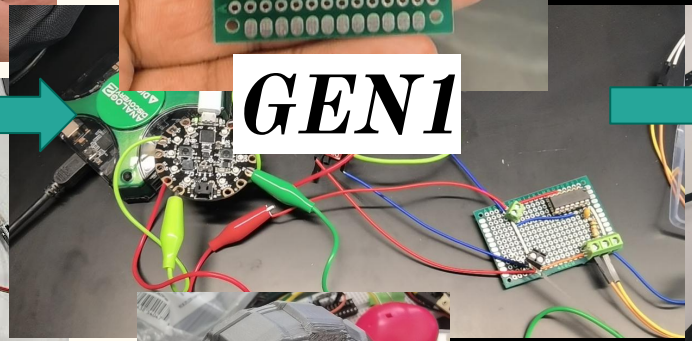
# Process



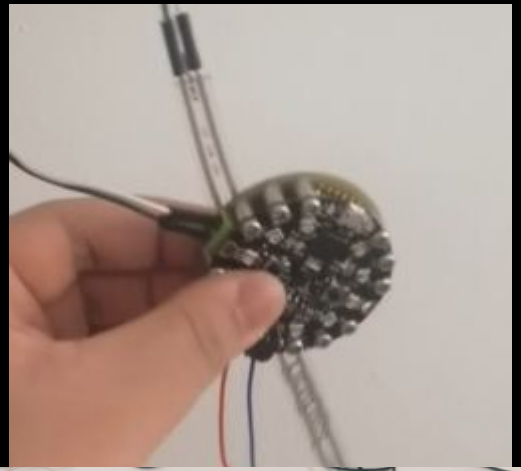


**Prototype**

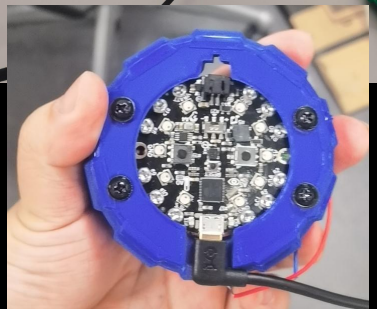




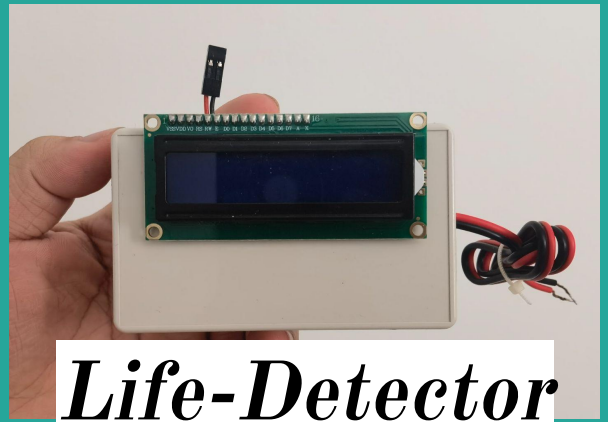
**GEN1**



**GEN2**

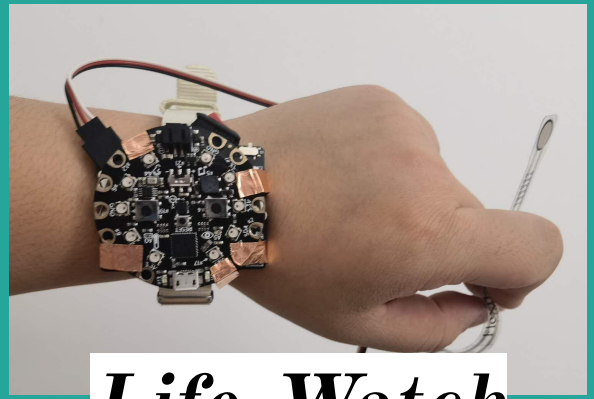


# More Products



## *Life-Detector Plus*

- Visualize breathing quality
- Multiple Sensor Channels for more babies
- Water proof



## *Life-Watch Pro*

- Small & Portable
- Wearable and easy to use
- Low cost

## *Life-Guardian Elite*

- Smart Screen control
- External IO Ports for peripherals
- IOT controlled

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# THANKS