

WE TAKE CARE OF YOUR HEART

OUR TEAM

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E_JUST TEAM

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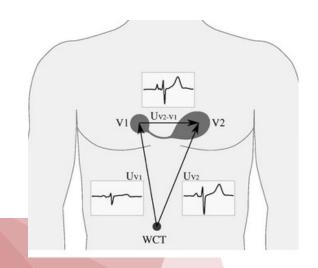
Problem:

Sudden heart attack deaths have skyrocketed in the last decade. Apart from genetic and lifestyle factors, rural areas' lack of medical resources accounts for most heart attack fatalities in developing countries.

WE WORKED ON A TINY
APPLICATION POWERED
BY EDGE IMPULSE TO
CREATE A MINIDIAGNOSIS ECG
ANALYZER DEVICE THAT
CAN FIT IN A POCKET
AND DIAGNOSE HEART
DISEASES WITHOUT THE
USE OF A CLOUD.

Objective:

This project, which aligns with the EGYPT2030 vision of making healthcare more accessible, aims to develop a prototype for a low-cost portable ECG-based cardiology screening device to diagnose various heart diseases. The project aims to create a machine learning model run on low-cost embedded hardware.



Placement of ECG electrodes

What makes our project special:

Present IoT Medical device sends bulk ECG data to the server for analysis in high processor.

- Computer-based application receives signals from ECG device and analyses ECG patterns.
- All ECG analyzing devices rely on the Internet or powerful computers.



ECG signal