

MODERN AUTISM BRACELET

Muhannd Alshanberi - Abdulbari Alsulami

Jehad Alzhrani - Nassar Alsharif

Advisor: Dr. Ammar Jaafar



ABSTRACT

The main purpose of this project is to make improvements to the autism bracelet to perform additional functions other than informing about the patient's disease status. Appropriate intervention at the right time. Statistics indicate that one child out of every 180 children suffers from this disease, according to the medical statistics of the World Health Organization, and that the growth rate increases annually by a rate ranging from 10 to 12%. Therefore, the intervention has become an attempt to find solutions that contribute to solving the problem or help In reducing the health deterioration of patients, this is why research in this field is very important and falls within the interests of the largest medical companies in the world.

INTRODUCTION

Our main goal is to provide a qualitative solution to autistic patients and their patients mainly, as the patient, as it is known, is in a state of isolation from the surrounding world and cannot fully estimate the risks. Therefore, we need to measure the safety factors completely in order to follow up the patient's condition and alert the risks and thus alert the patient's family To follow the patient and try to raise the risk, this is done through an electronic bracelet, through which the basic determinants of the patient's body are measured in terms of pulse, temperature and other indicators that measure the patient's vital parameters. This is from the medical side. On the other hand, there are safety and security indicators where the bracelet is provided with emergency button and can send SMS to parents phones so that the patient's family can be on contact with him On the other hand, the device can be connected to an electric current that regulates nerve irritation based on medical reasons and under full medical supervision.

PROBLEM STATEMENT

The main problem of autistic patients is communicating with the surrounding world, although some autistic patients have very high mental abilities in arithmetic and logical matters, but the lack of communication makes dealing with them requires a customized method and basic tools that help patients to communicate with the environment more effectively.

FUTURE PLAN

- Add more sensor to give feedback about patient medical status
- Add more features
- Make it available for everyone to purchase

CONCLUSION

Our project can help improve the patient's disease status by using Autism Bracelet to keep the patient in contact with others in emergency cases and monitor his health status.

CHALLENGES

- Learn how to program on C
- Using Nxtion Software to build application for Display LCD
- Read many sensor data all the time.

HARDWARE PARTS

