

# IMPROVEMENT ON DESIGNING A BIOMEDICAL APPARATUS FOR PATIENT WITH BROKEN ARM

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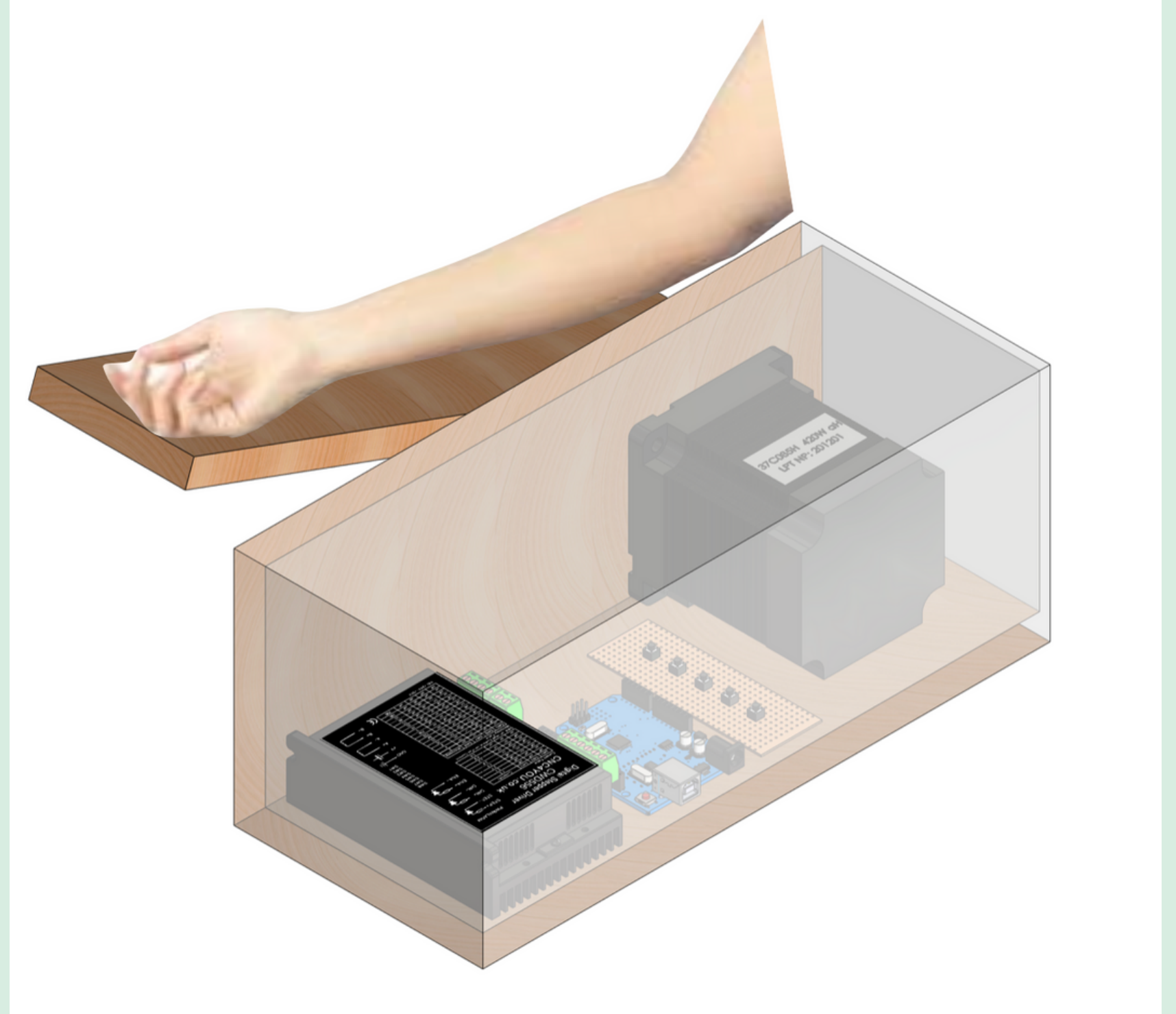
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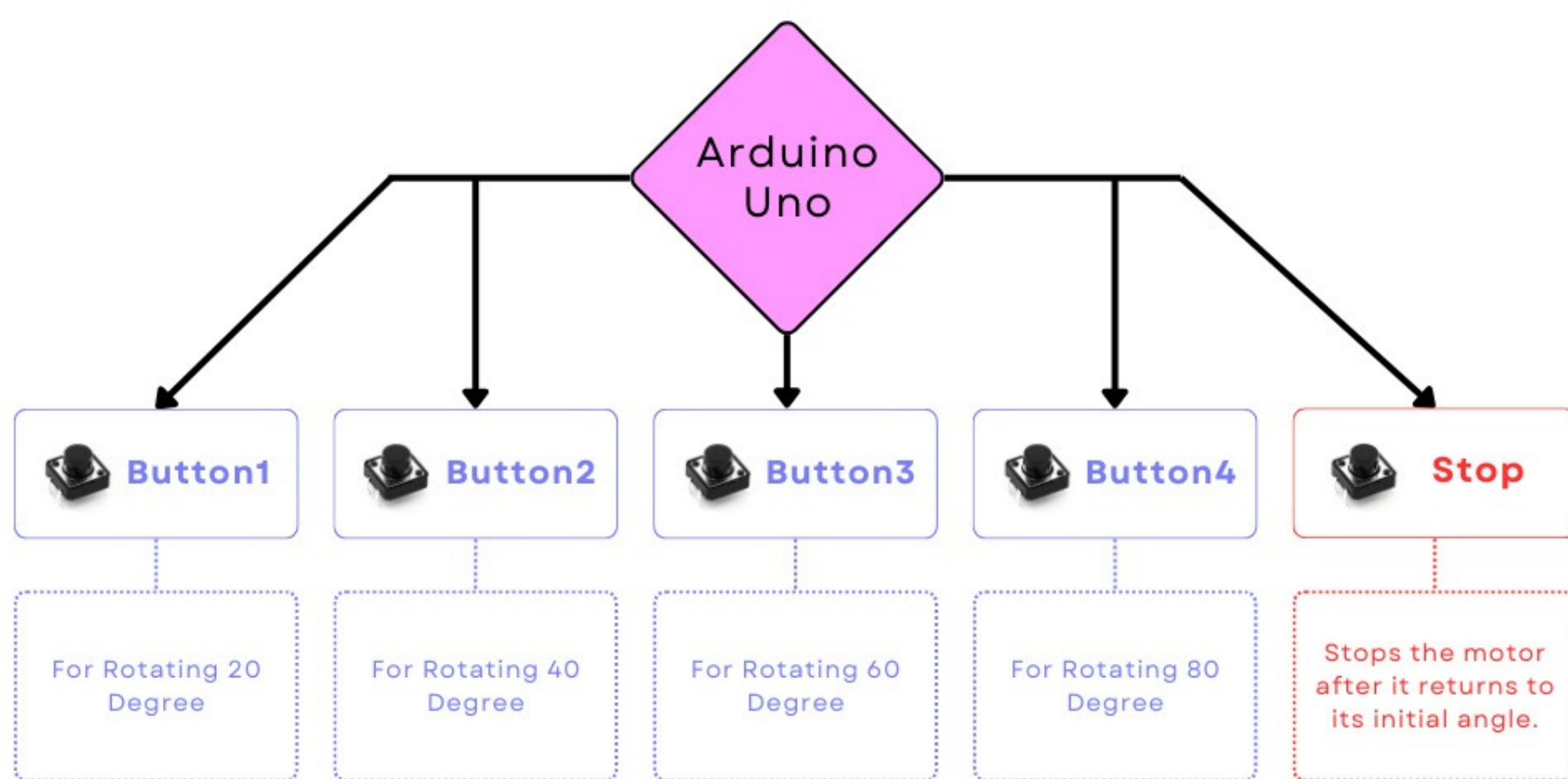
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## ABSTRACT

People with a broken arm have to cope with the difficulties they face in their daily lives. This is not only limited to physical discomfort, but also has psychological effects. The project "Designing a Biomedical Apparatus for a Patient with a Broken Arm" has emerged to understand and solve these challenges. The biomedical apparatus we designed will help patients to perform their daily activities more comfortably and independently. This will not only improve the quality of life of the patients, but also speed up the rehabilitation process, making a positive contribution to their return to normalcy. The societal impact of our project reflects its potential to touch a wide range of users by facilitating the lives of individuals with a broken arm.



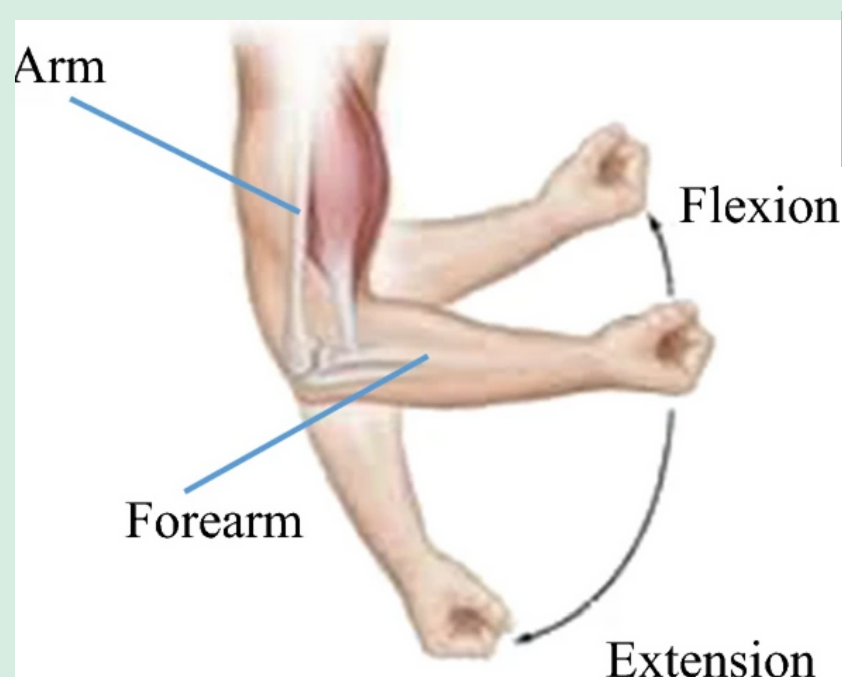
## FLOWCHART



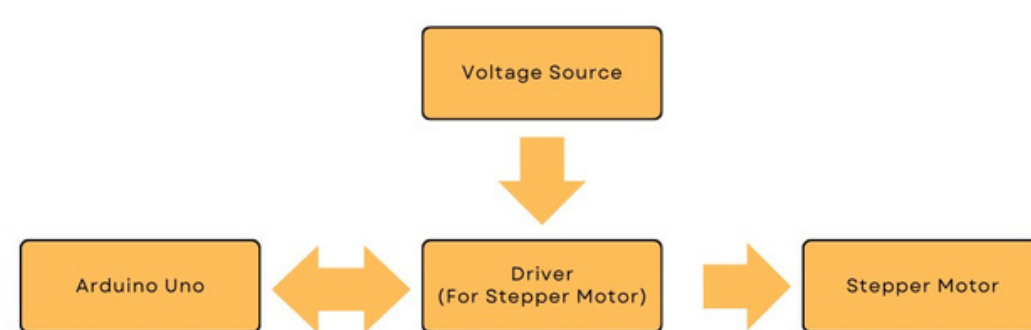
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## Overall Expression About Project

In general, this project is a motorized device that allows a joint to be moved passively through a preset range of motion, aiming to reduce joint stiffness and improve range of motion.



## BLOCK DIAGRAM



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## CONCLUSION

This project focuses on the development of a biomedical device designed to improve the quality of life of patients with a broken arm. The research and design process was carried out with the aim of providing a user-oriented and effective solution. The device has been carefully designed to maximize patient comfort, support the rehabilitation process and provide an effective tool for healthcare professionals.

## MAIN COMPONENTS:

Step Motor, Motor Driver, Resistor, Arduino uno, Voltage Source, Button, Electrical Cable

## REFERENCES

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