

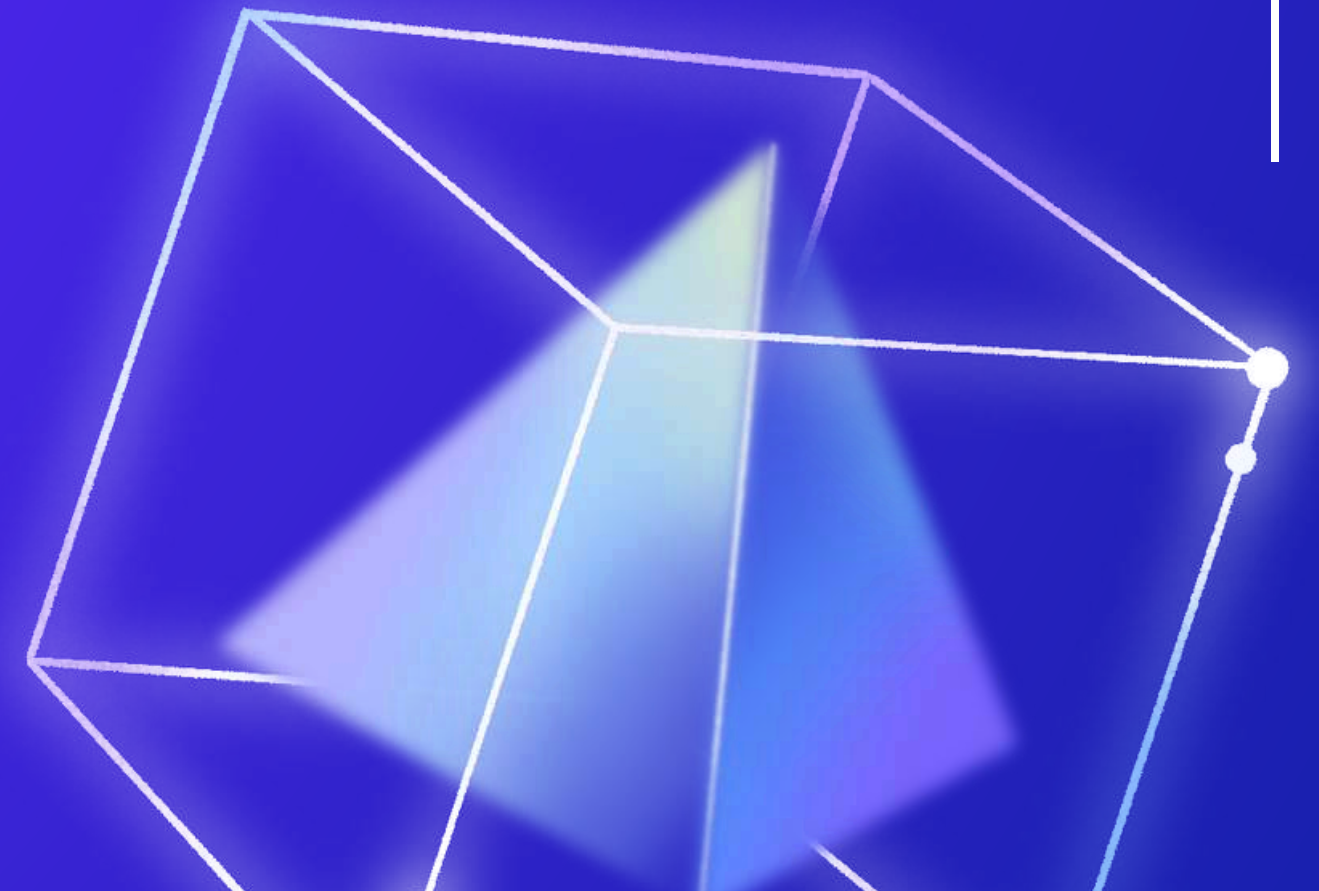
EMBEDDED SYSTEMS CONTROLLING CAR WITH HAND MOTION

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INTRODUCTION

This report explores the concept of controlling a car with hand motions, using sensor-based systems and advanced algorithms. It aims to enhance the driving experience and open new avenues for individuals with physical disabilities. We will uncover the science behind hand motion control systems, their implementation in cars, and their potential impact on future transportation.



PROJECT PROCESS



we have watched many videos to understand the concept of how we can implement the idea in the real world.



Every member has chosen his preferred task from those tasks:

- 1- coding & simulation
- 2- buying the components and finding compatible components related to the videos and the AMIT kit
- 3- Reading the data sheets & Power Point

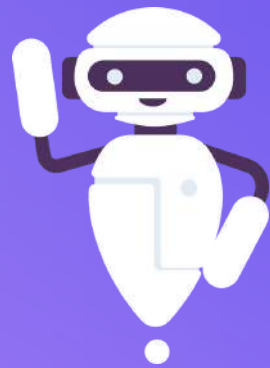


We have tried to pick a time & place that is available to all the team members which is the hard thing

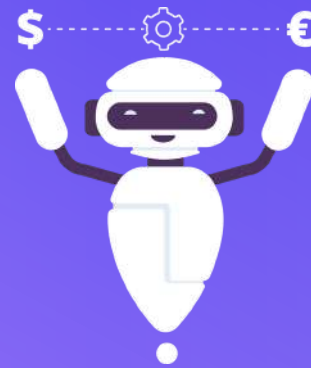


we have faced problems while integrating components like esp32 with Amit Kit.
finally, we have solved all these problems by sharing each other ideas.

PROJECT OBJECTIVES



OBJECTIVE 01
GO
FORWARD &
BACKWORD



OBJECTIVE 02
GO LEFT &
RIGHT



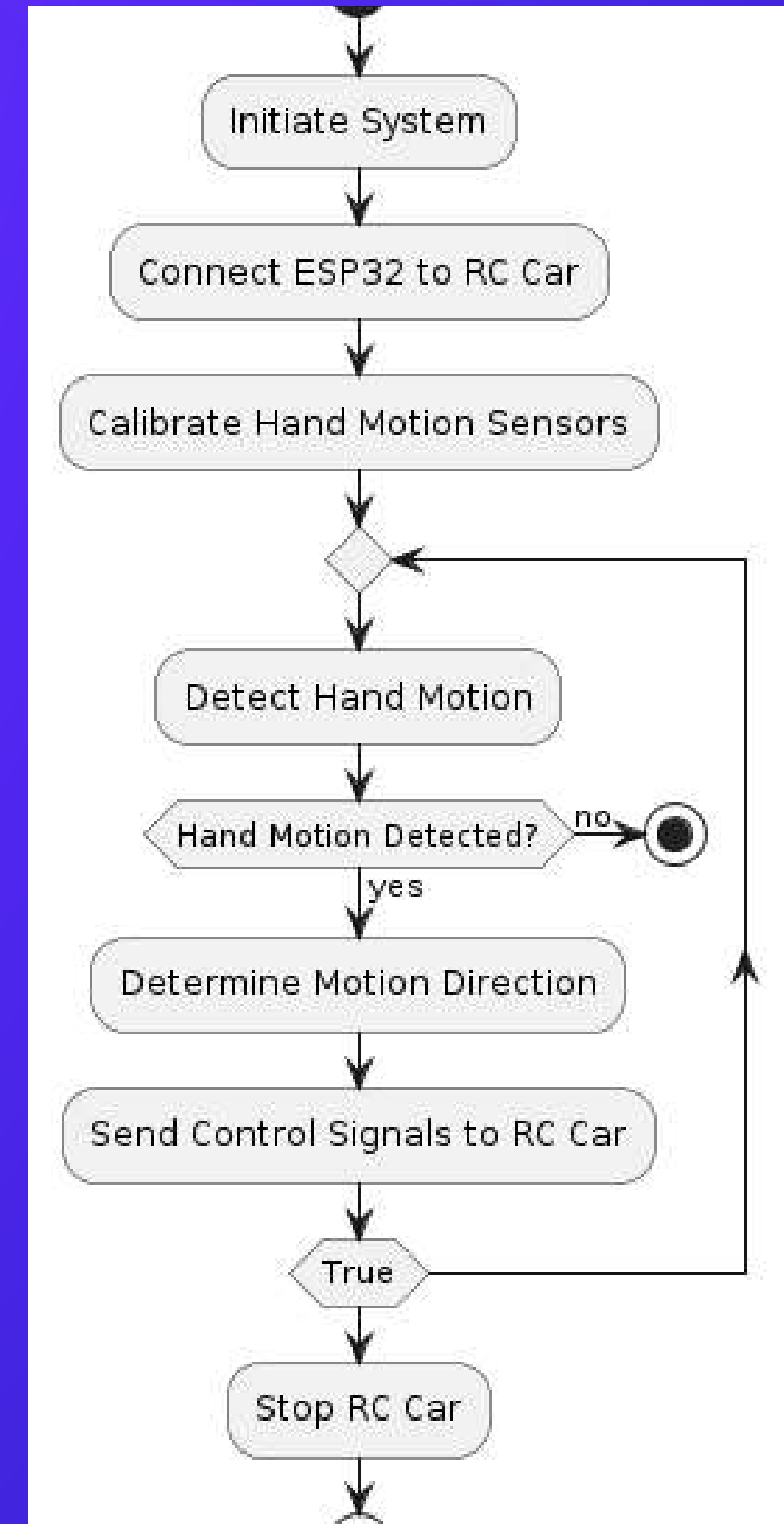
OBJECTIVE 03
GO IN TWO
DIRECTION
IN THE SAME
TIME

PROJECT SIMULATION

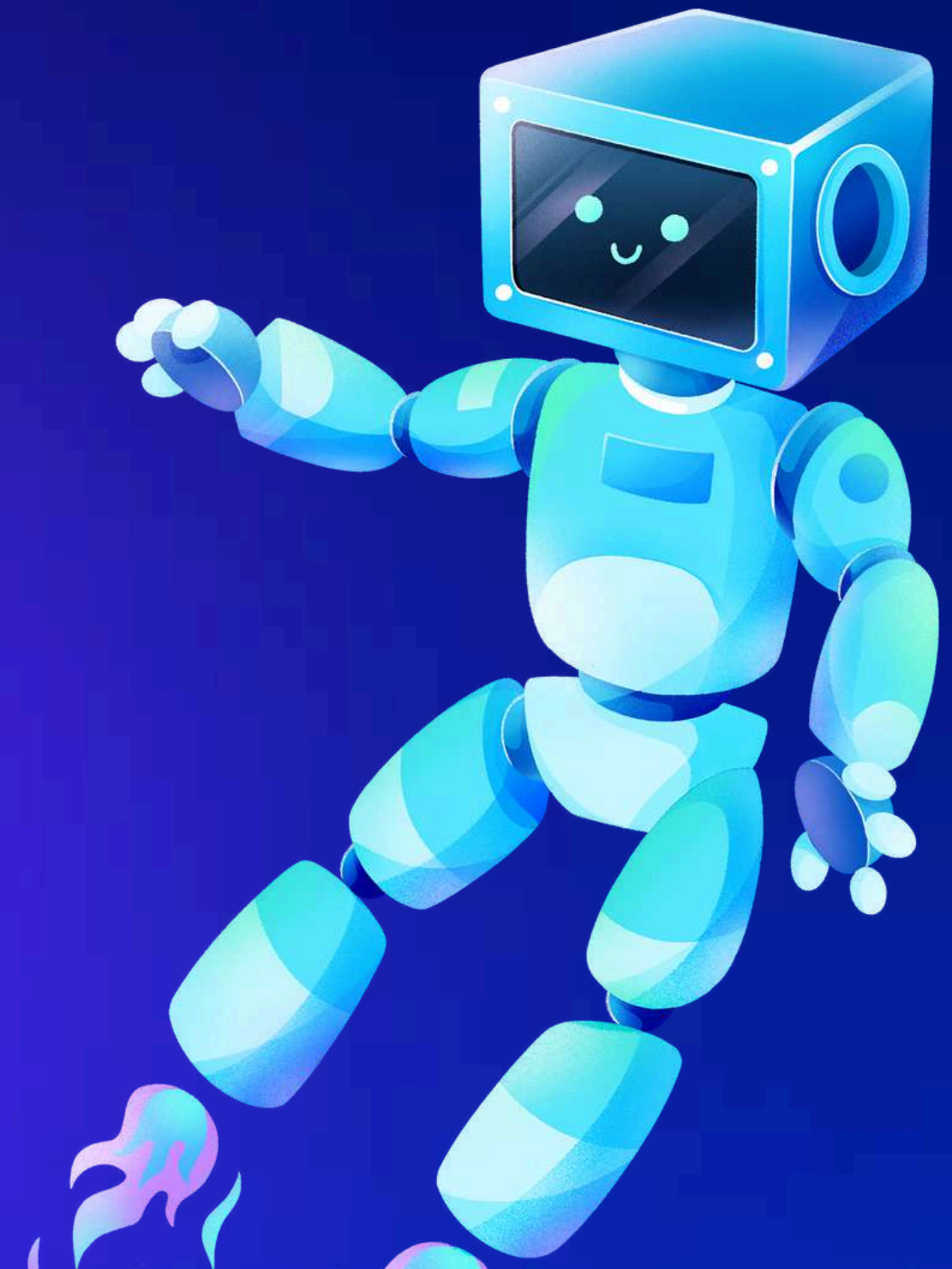
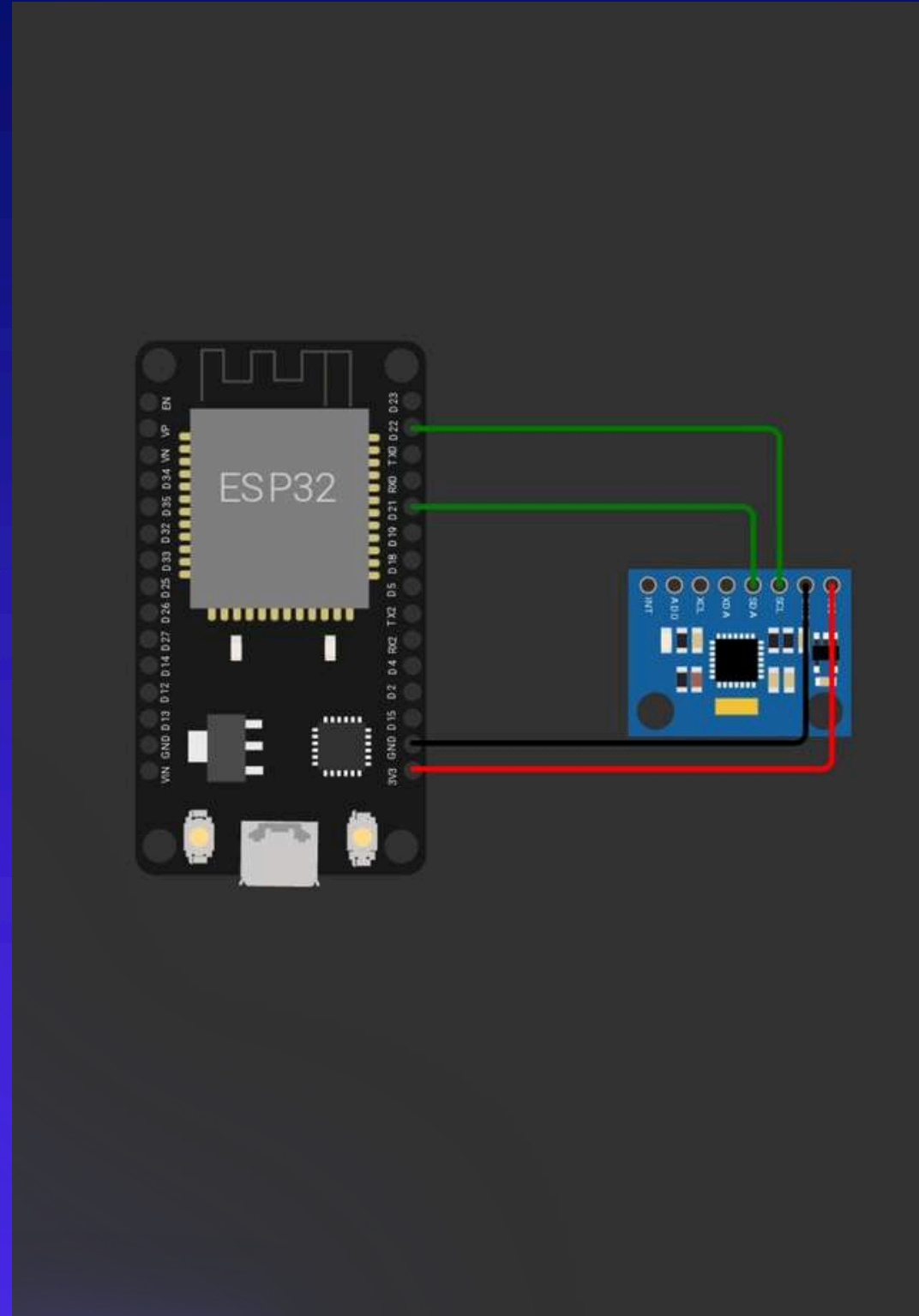




FLOWCHART



HAND SIMULATION



RESULTS AND ACHIEVEMENTS

01

- we have implemented something new and added to our experience although our coding was not that good but we have did our best.

02

- we have worked as a team and tried to support each other since we are living in different governorates (Tanta, Sharkia, Belbes). Overall, we have learned from this project.

THANK YOU!

