KTO KARATAY UNIVERSITY

FACULTY OF ENGINEERING

DEPARTMENT OF MECHATRONICS ENGINEERING

MEM620 COMPUTER AIDED DESIGN AND PRODUCTION

ADVERTISEMENT SYSTEM LABELLING LINE

PROJECT PRESENTATION

<17.05.2024>

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1. PURPOSE OF THE PROJECT

- This project is designed to understand and apply the basic principles of industrial automation.
- It aims to optimise industrial processes by creating an automation system with the integration of components such as conveyor belts, sensors, pistons and PLCs.
- The project provides a solution to automate material handling and processing processes and increase productivity.

2. PROJECT CONTENTS

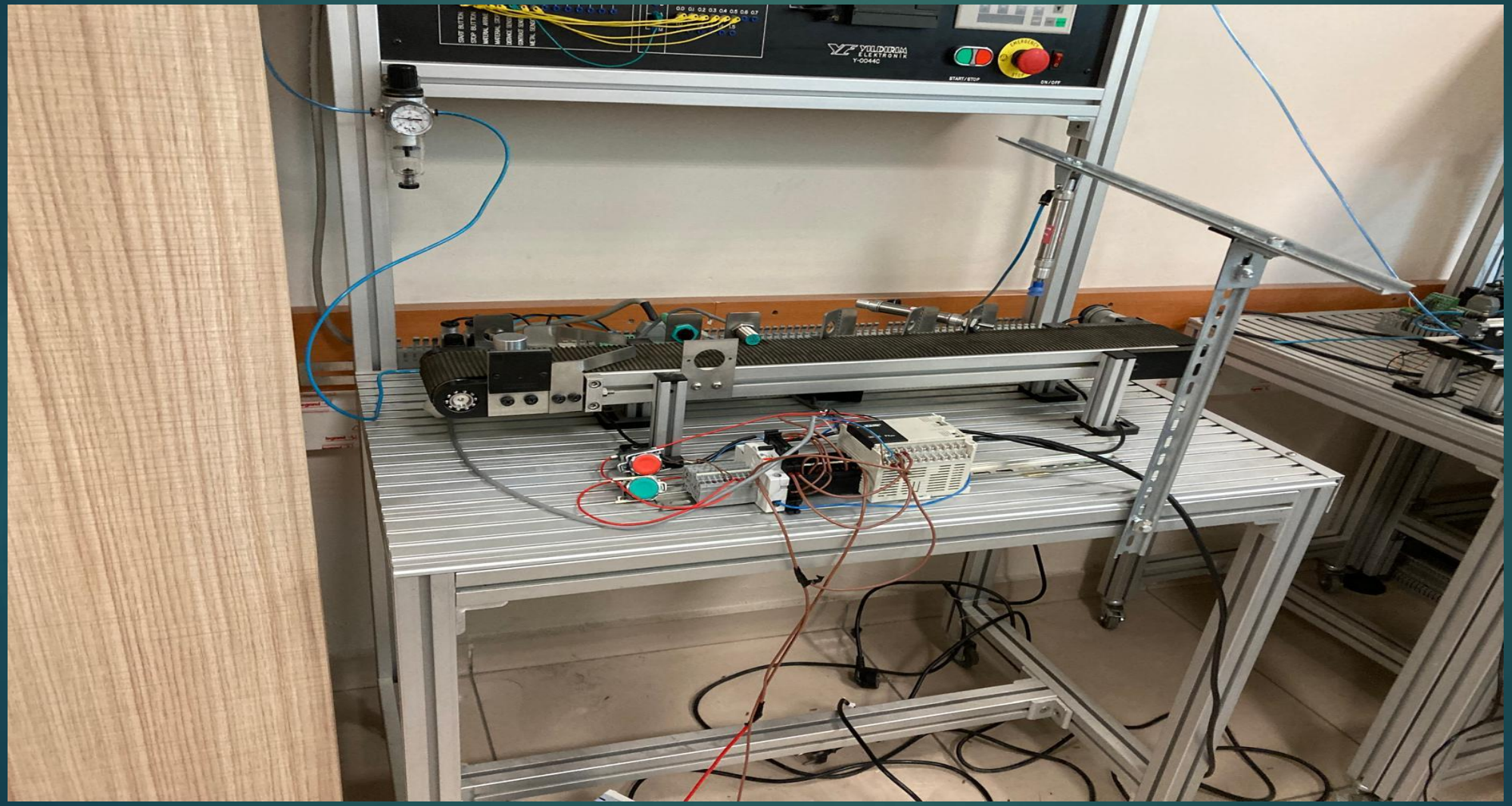
- This presentation introduces the design and operating principles of an automation system using a conveyor belt, object detection sensor, motor, valve, pneumatic piston, CPU PLC and relay.
- The presentation explains in detail the object detection and operation application processes on the conveyor belt.
- It also gives information about the aim of the project, the importance of industrial automation and the functions of the components used.
- Finally, the results of the project and areas for future improvement are also discussed as part of the presentation.

3. MATERIALS USED IN THE PROJECT

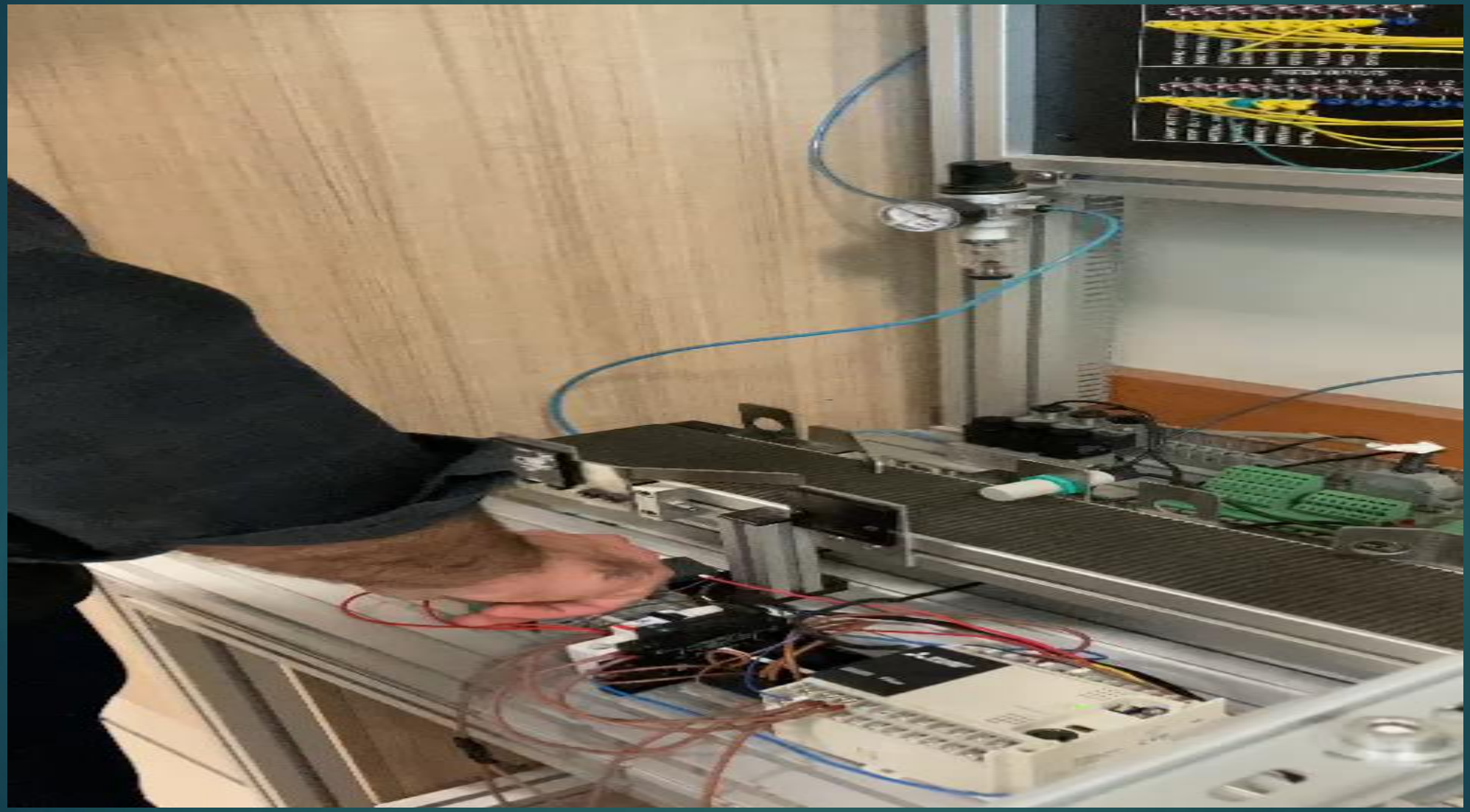
- Button
- Fuse
- Connector
- Relay
- Proximity (Capacitive) Sensor
- Pneumatic Piston
- PLC
- Belt Conveyor

4. LADDER DIAGRAM OF THE PROJECT

5. GENERAL VIEW OF THE PROJECT



6. VIDEO OF THE PROJECT



THANK YOU FOR LISTENING PATIENTLY.