



ระบบติดตามย้อนกลับในกระบวนการผลิต โดยใช้ PLC ร่วมกับระบบฐานข้อมูล

Traceability System in Production Process By using PLC with Database System

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จัดทำโดย



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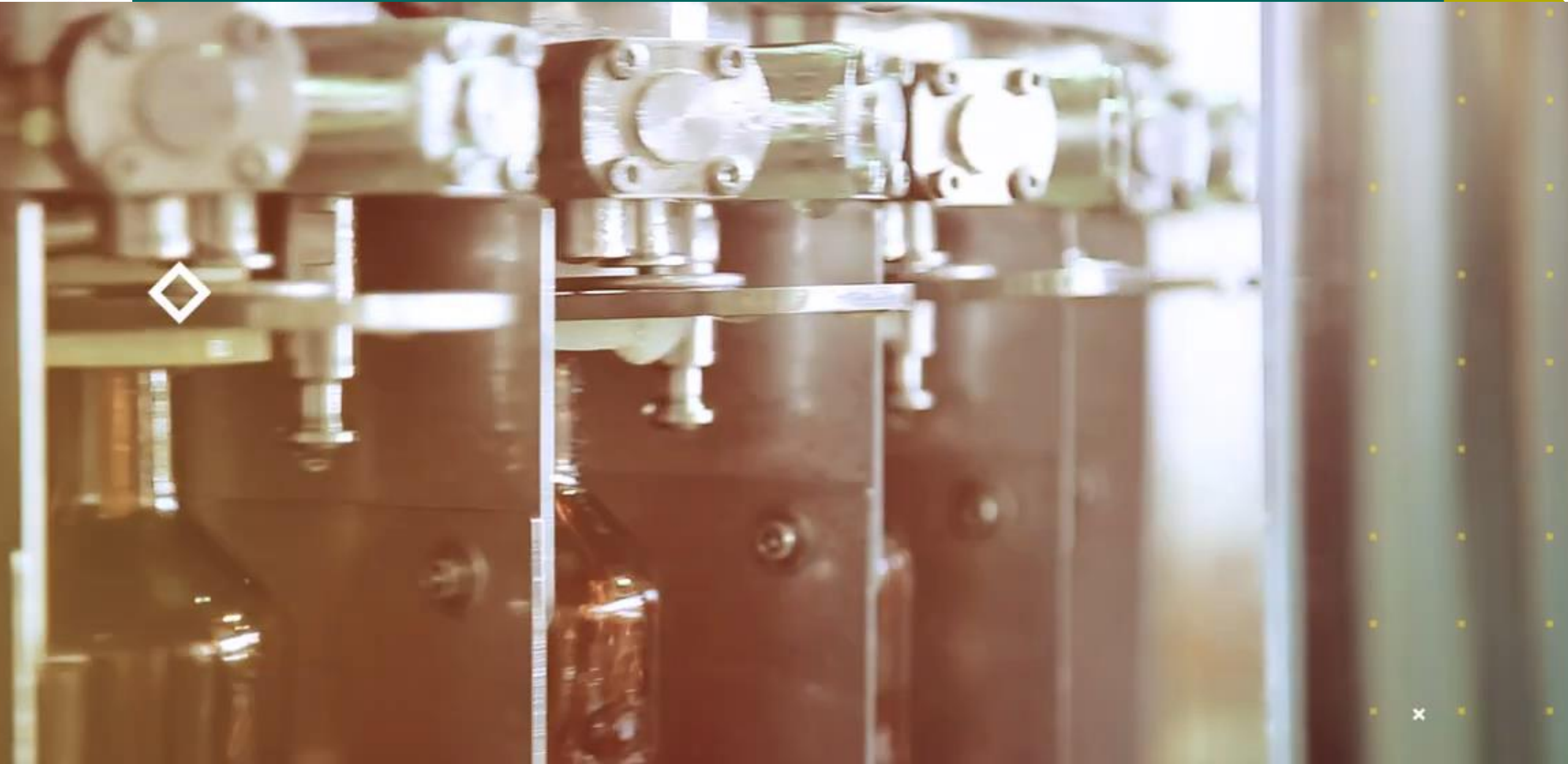


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6110551520





ที่มาและความสำคัญของโครงการ





Hardware



PLC Omron

รุ่น CJ2M-CPU35



PLC Input Module

รุ่น CJ1W-ID211



PLC Output Module

รุ่น CJ1W-OD211

Software



CX-Programmer





Hardware



Touch Screen Omron

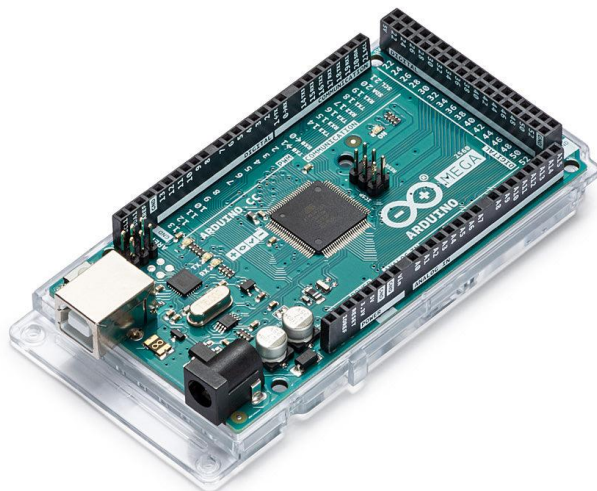
รุ่น NB5TQ-TW00B

Software





Hardware



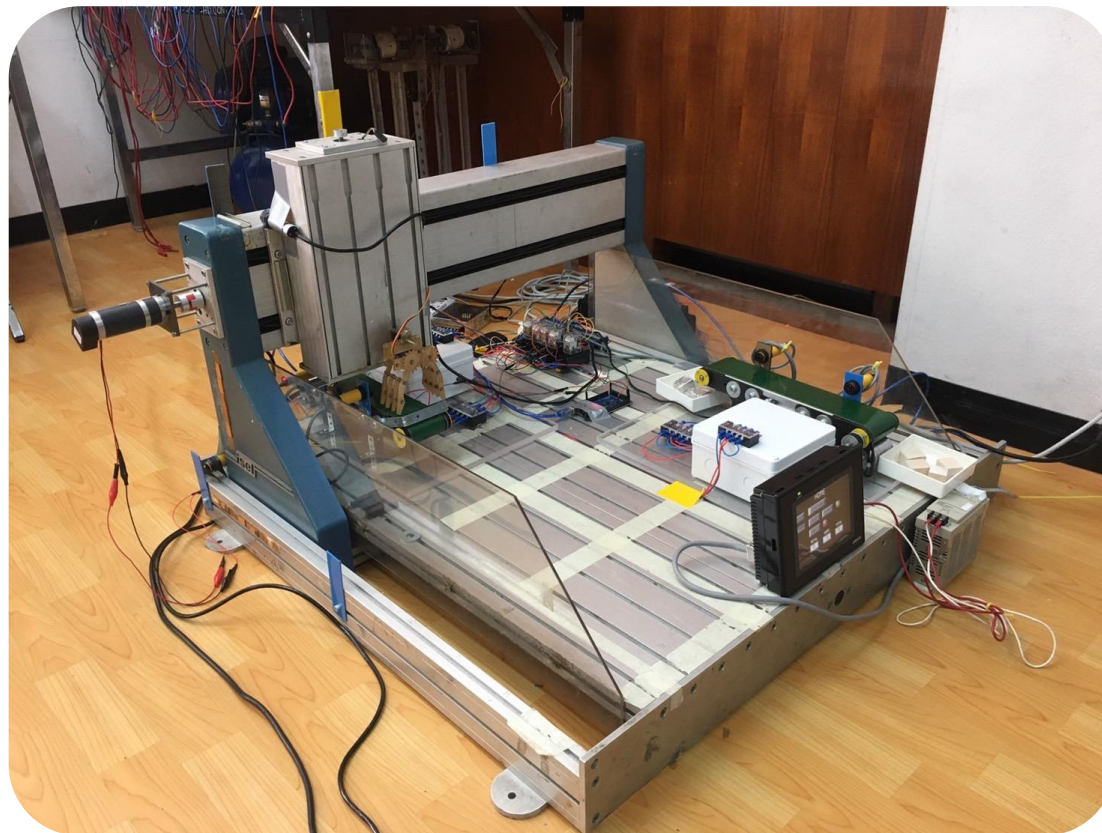
Arduino Mega 2560 Rev3

Software





Hardware



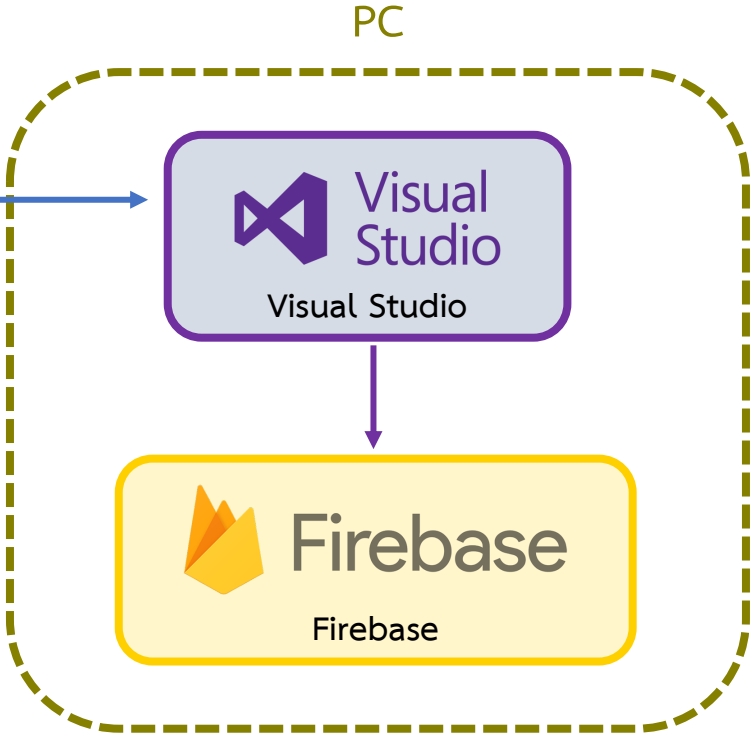
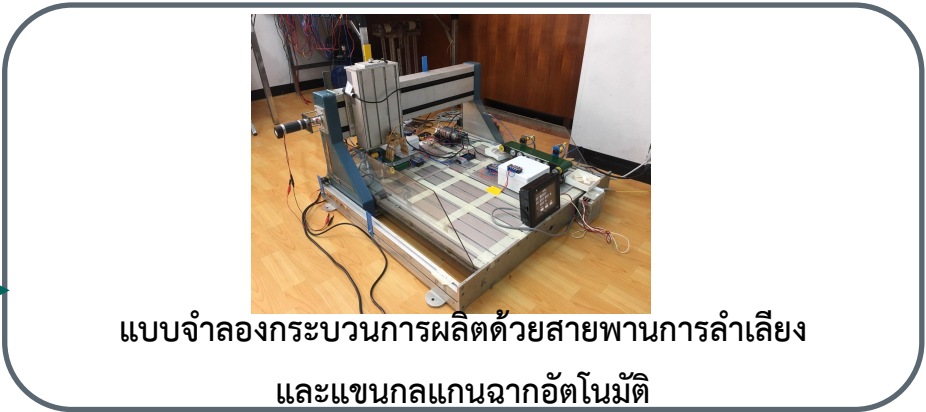
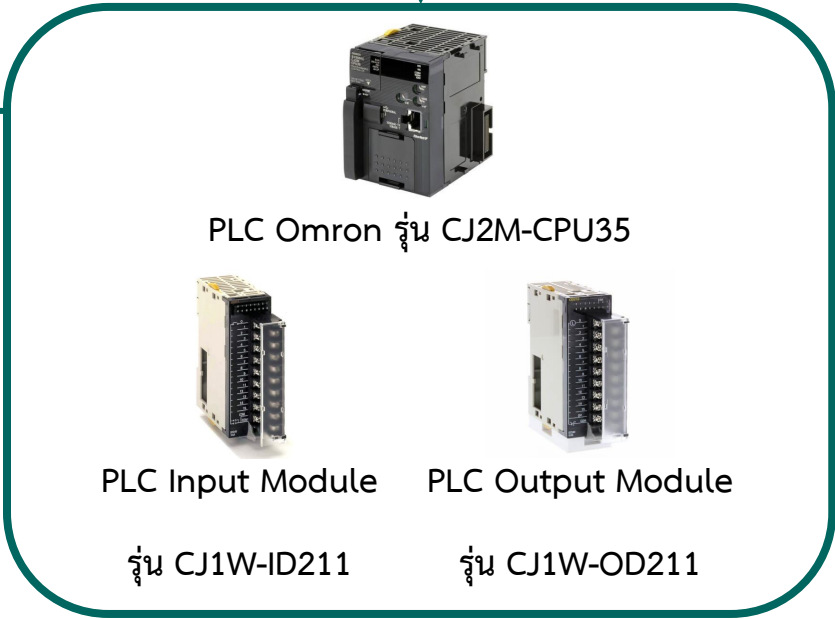
แบบจำลองกระบวนการผลิตด้วยสายพานการลำเลียงและแขนกลแกนจากอัตโนมัติ





Software

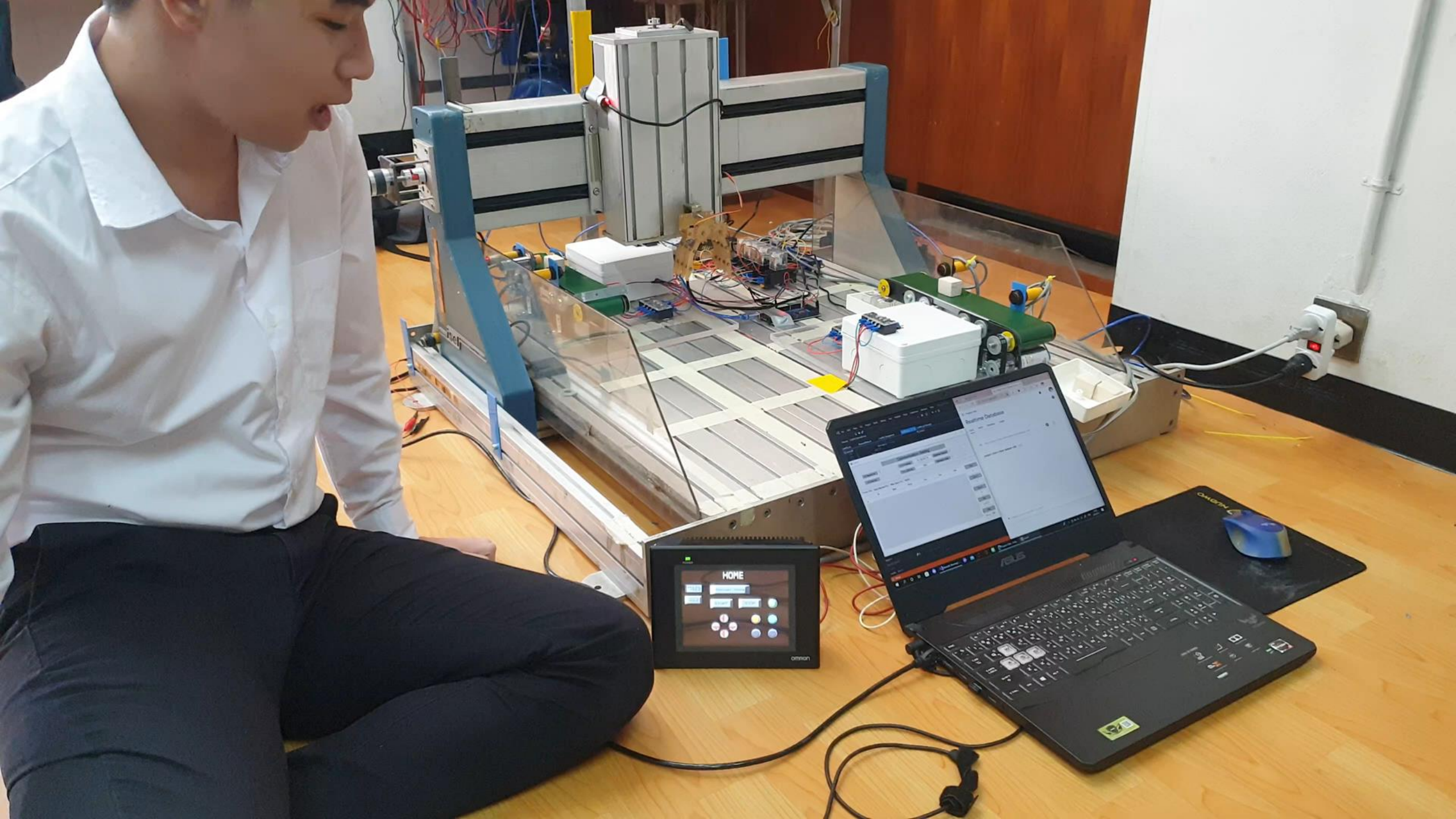






Touch Screen(Manual Mode)



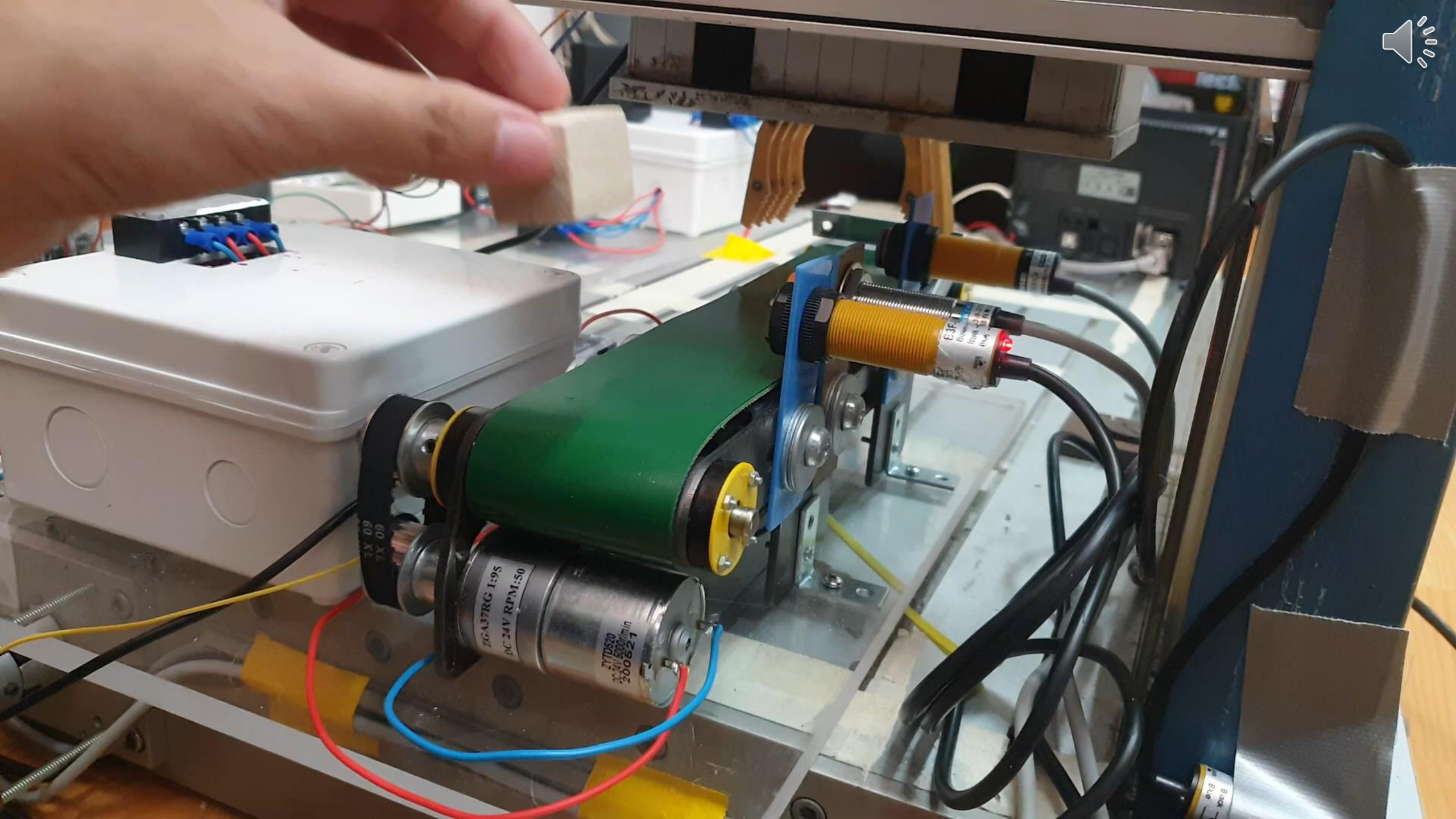


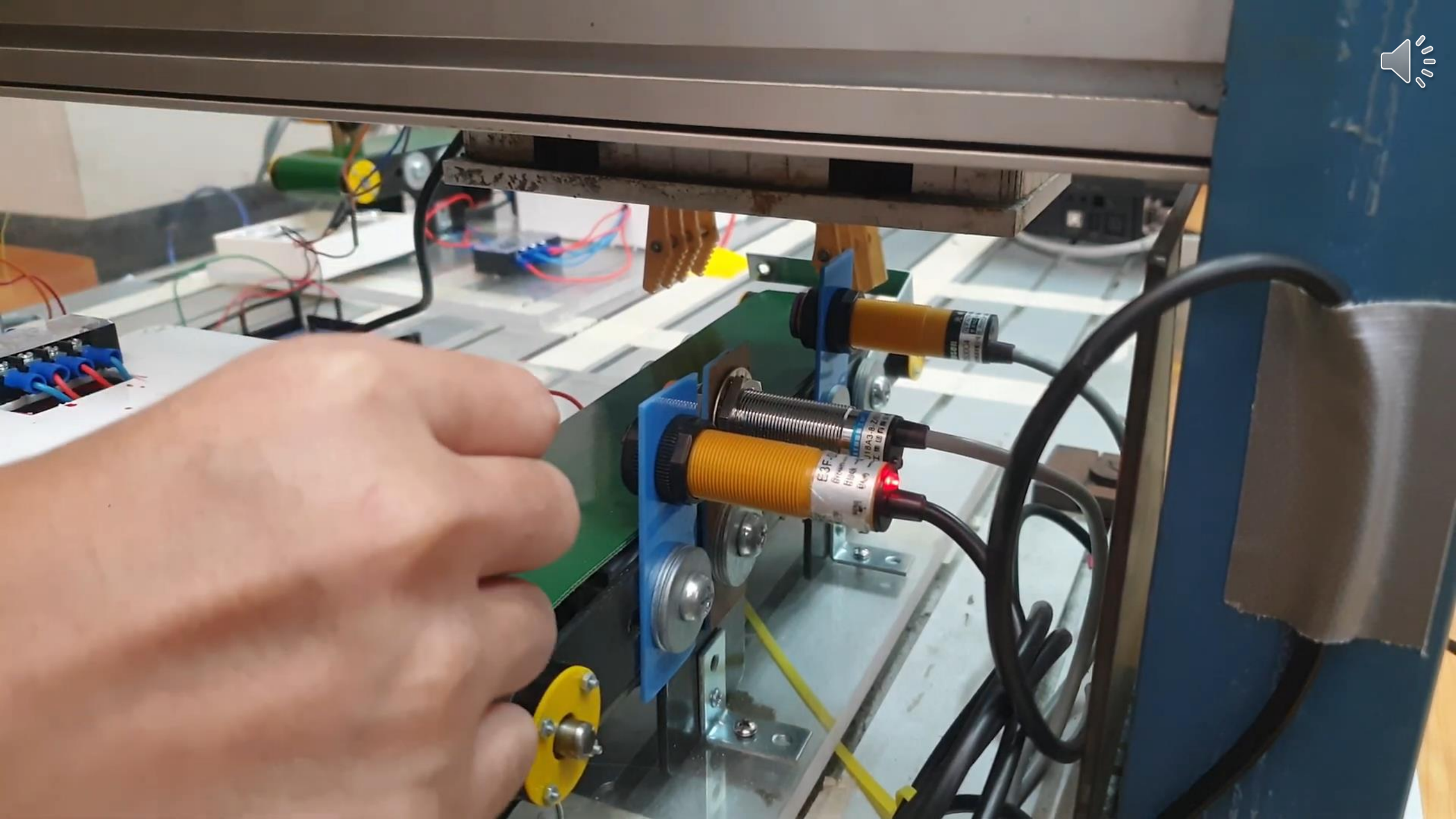


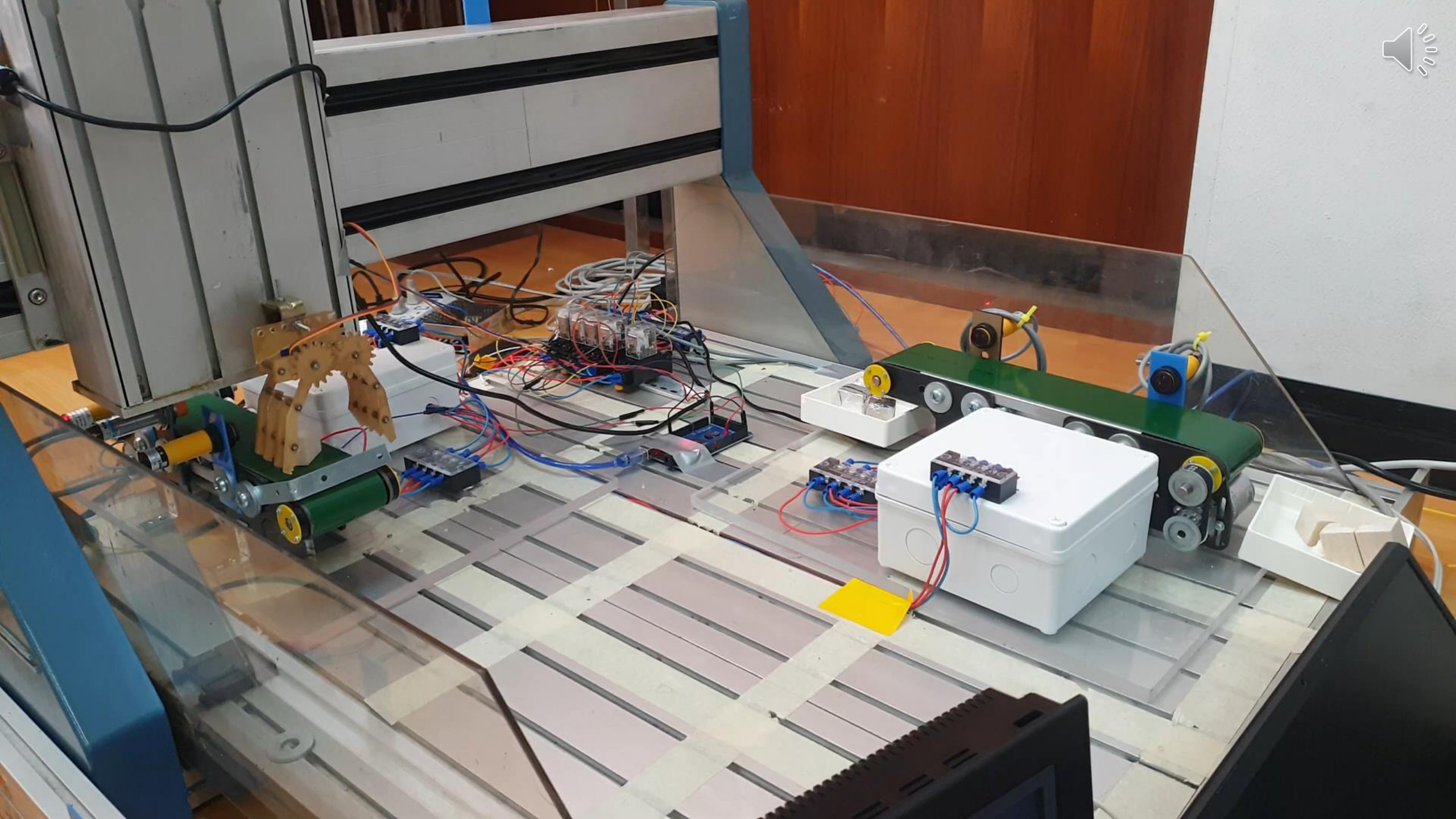
Touch Screen(Auto Mode)

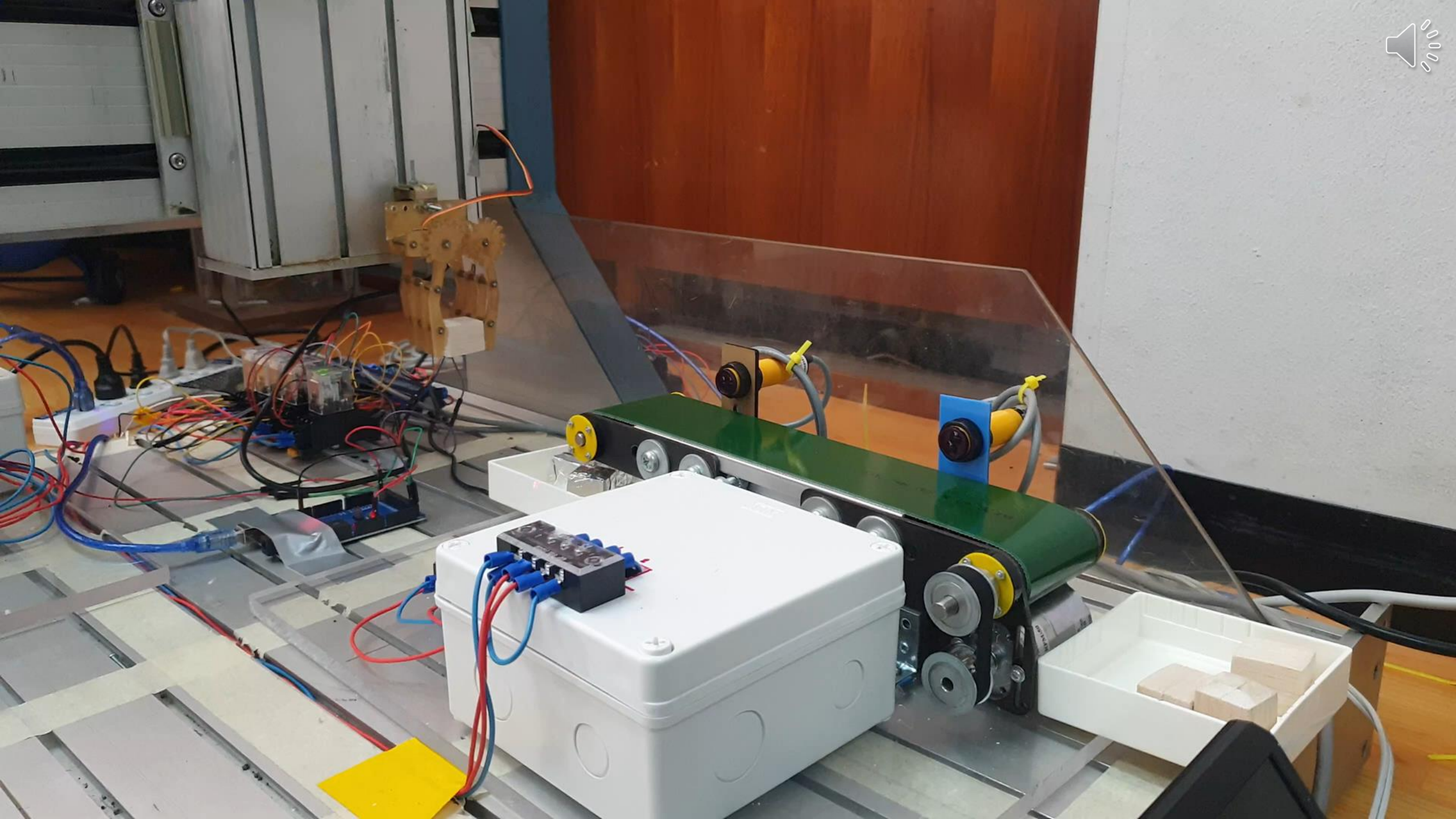


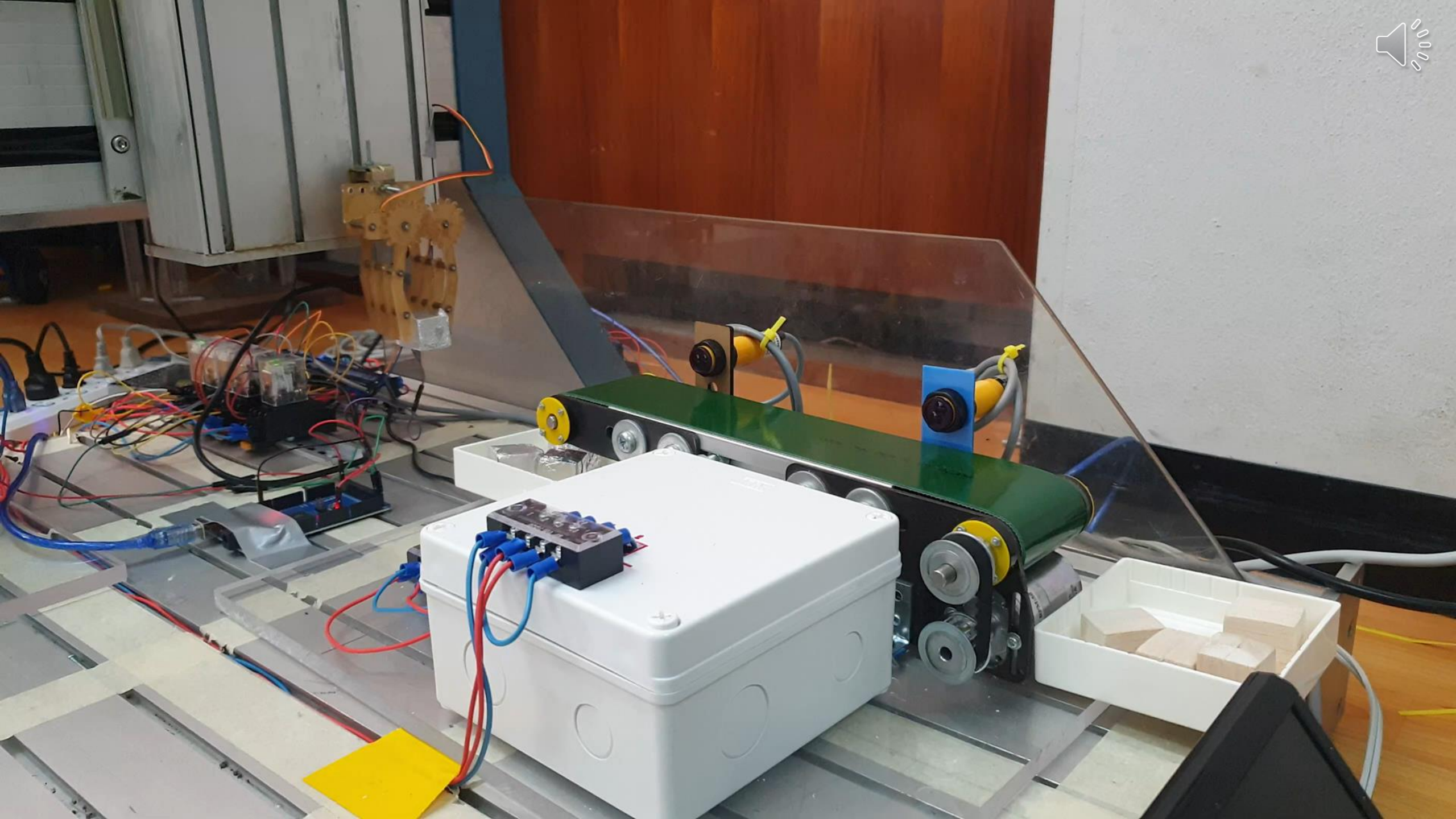












Project 2564 - Firebase console

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https://console.firebase.google.com/u/0/project/project-2564-c26e0/database/project-2564-c26e0-default-rtdb/data

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Project 2564

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Project Overview

⚙️

Build

Authentication

Firestore Database

Realtime Database

Storage

Hosting

Functions

Machine Learning

Release & Monitor

Crashlytics, Performance, Test La...

Analytics

Dashboard

Realtime

Extensions

Spark

No-cost \$0/month

Upgrade

Go to docs

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Realtime Database

Data

Rules

Backups

Usage

https://project-2564-c26e0-default-rtdb.firebaseio.com/

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project-2564-c26e0-default-rtdb

Counter: "1"

DataDB

Piece : 1(Metal : 0,Wood : 1)

DateData: "30 มี.ค. 2565"

MetalPiece: "0"

No: "1"

Time: "14:15:43"

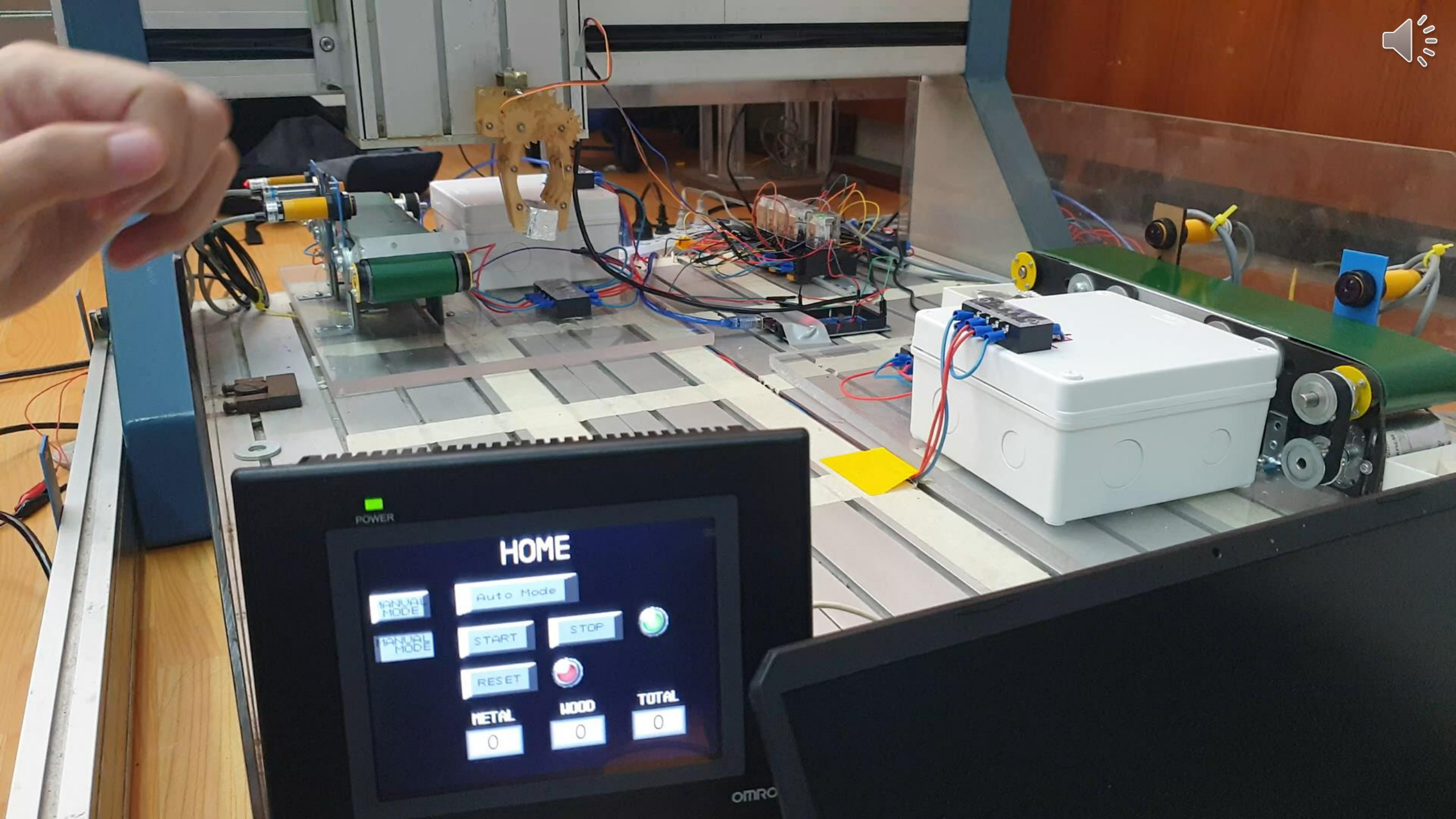
Total: "1"

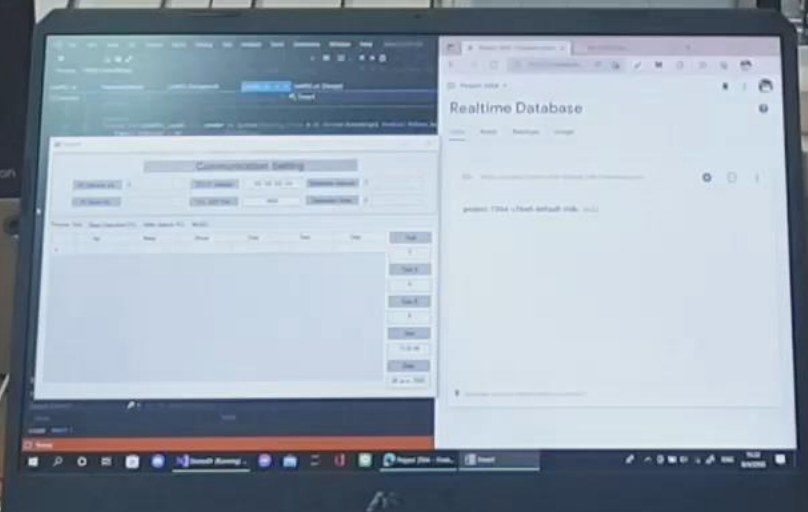
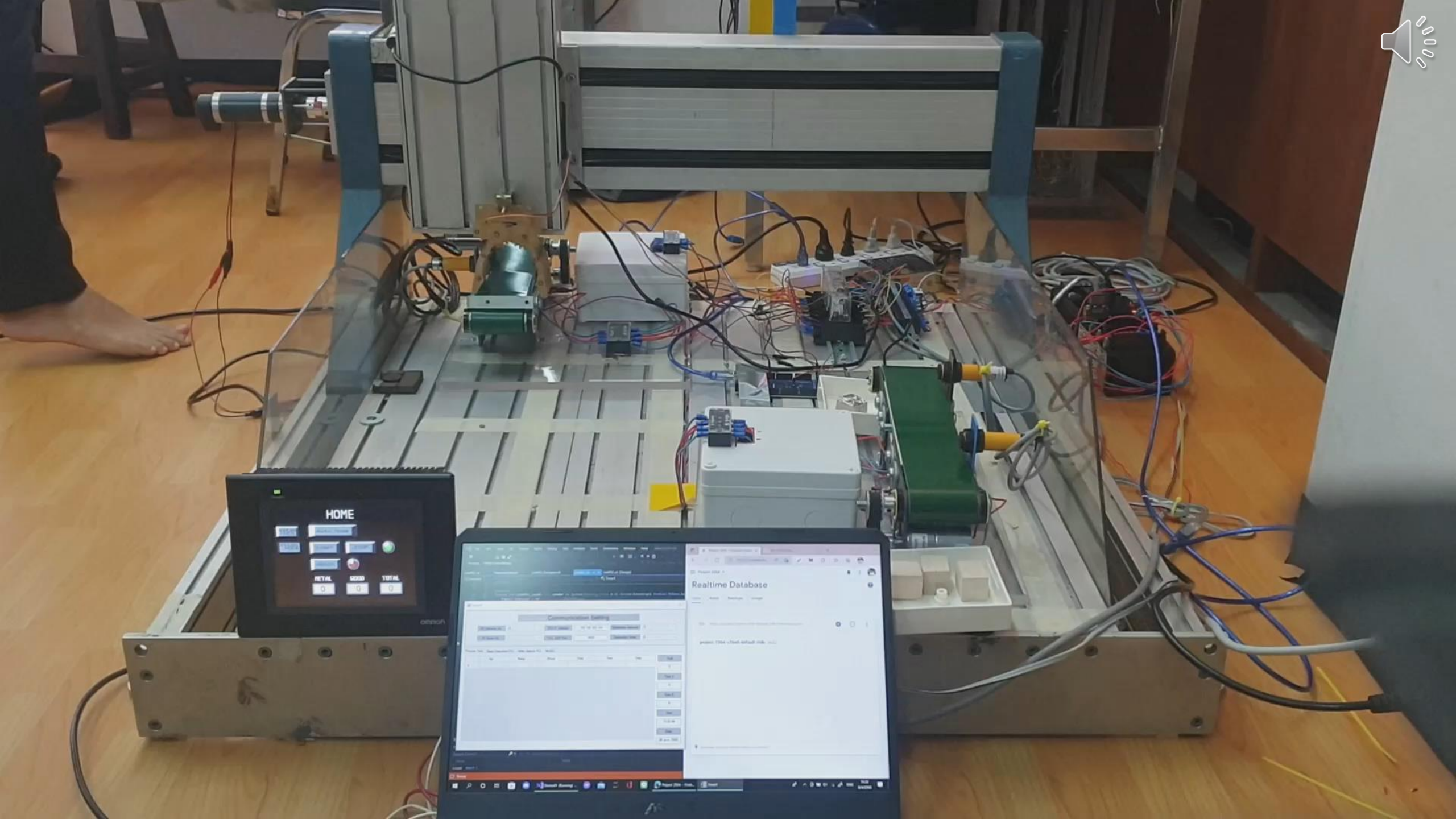
WoodPiece: "1"

Total Metal Piece: "0"

Total Wood Piece: "1"

📍 Database location: United States (us-central1)





Visual Studio interface showing a VB.NET project named "LinkPLC.vb" in Design view. The code window shows a timer event handler for "Timer1".

The "Form1" window displays a "Communication Setting" form with the following fields:

- PC Network No.: 0
- PLC IP Address: 192.168.250.144
- Destination Network: 0
- PC Node No.: 1
- PLC UDP Port: 9600
- Destination Node: 0

Below the settings, there are tabs for "Process Data", "Read Data from PLC", "Write Data to PLC", and "MySQL". The "Process Data" tab is active, showing a table with columns: No., Metal, Wood, Total, Time, and Date.

No.	Metal	Wood	Total	Time	Date
*					

On the right side of the table, there are buttons for "Total", "Type A", "Type B", "Time", and "Date", each with a corresponding input field showing "0". At the bottom right, there is a button labeled "08:14:11.2565".

The bottom status bar shows "95 %", "No issues found", and a "Watch 1" section with a search bar and "Search Depth: 3".

Web browser window showing the "Realtime Database" console for "Project 2564". The URL is <https://console.firebase.google.com/project/2564/realtime/database>.

The console displays the database name: **project-2564-c26e0-default-rtdb** with a value of **null**.

At the bottom, it indicates the database location: **United States (us-central1)**.



THANK YOU

