




Final Presentation

ARQUITETURAS PARA SISTEMAS EMBUTIDOS

Universidade de Aveiro

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Presented by:
João Ferreira (103625)
Gonçalo Leal (98008)

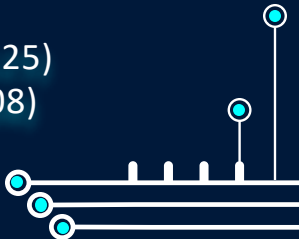
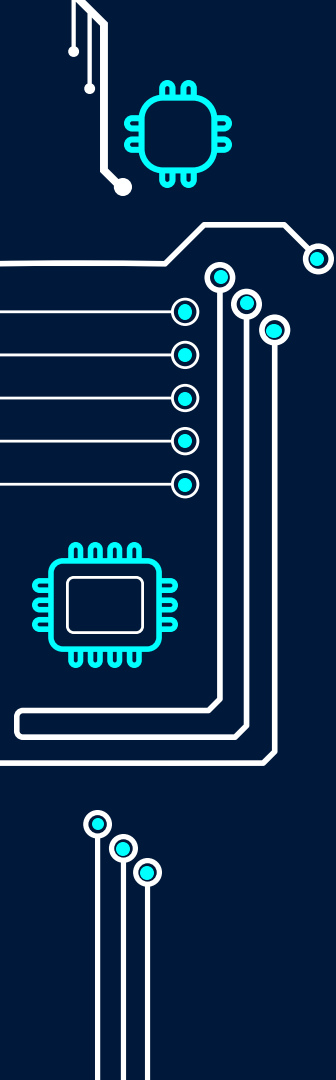


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GOALS AND OBJECTIVES

- Use TC74 to read temperature data
- Create a log file, send it to the SD card, and write the read temperature data
- Send this data to a backend to visualize it in Grafana
- Utilize the ESP's internet connection and configure OTA updates to check for updates from a GitHub repository

DEVICES

TC74



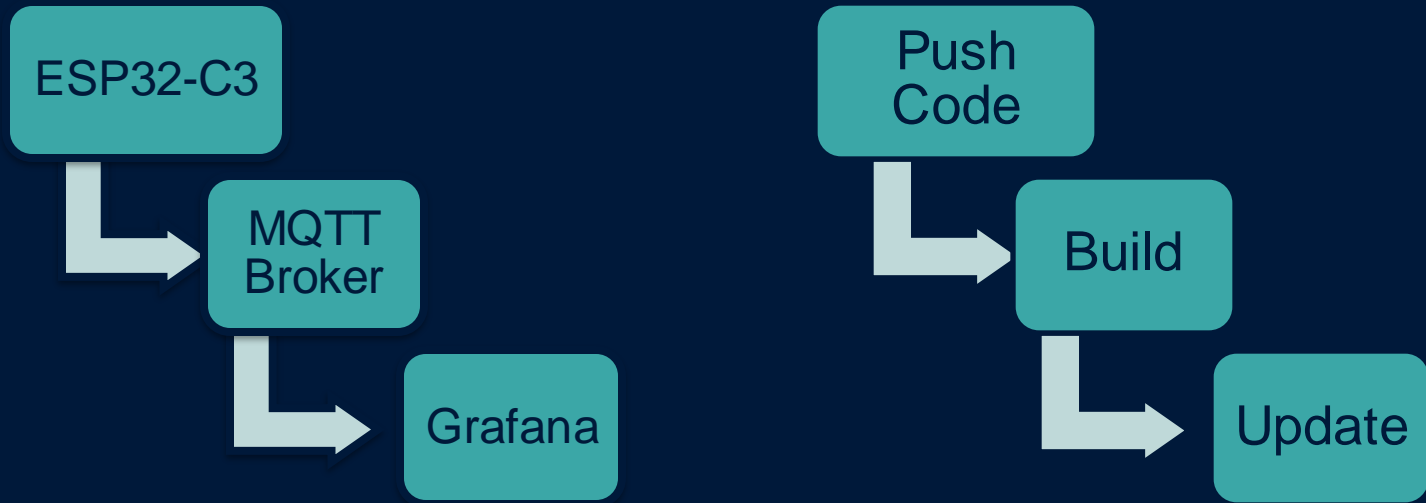
SD CARD



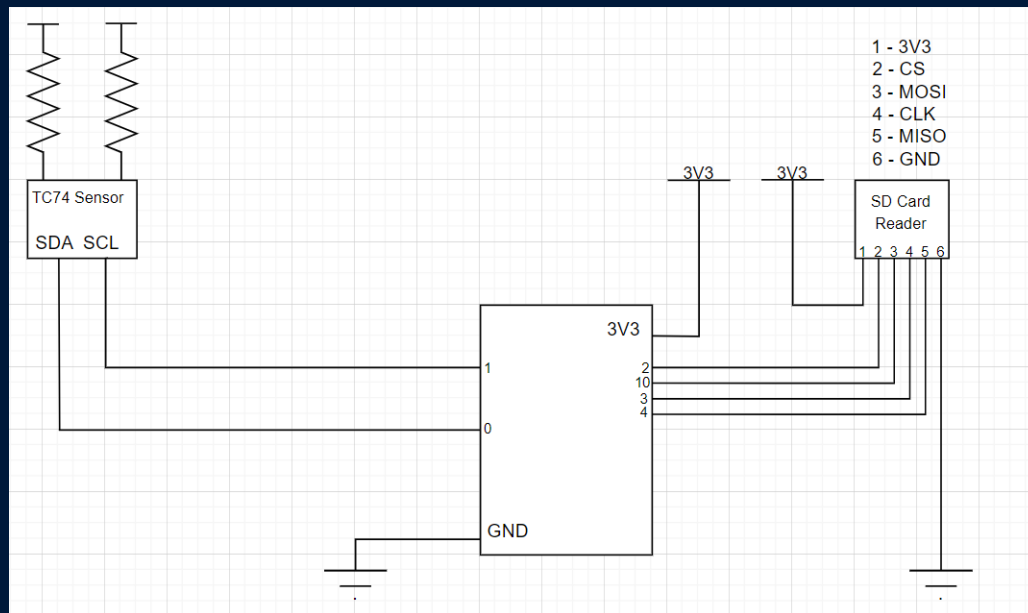
ESP32C3



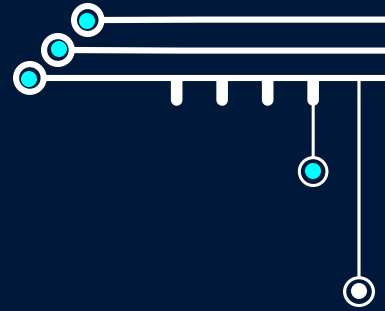
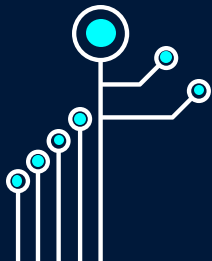
COMMUNICATION ARCHITECTURE



HARDWARE ARCHITECTURE



DEMO



REFERENCES

[ESP32 Firmware Updates from GitHub: A Simple OTA Solution](#)

[Adafruit BME280 Humidity + Barometric Pressure + Temperature Sensor Breakout](#)

[TC74](#)

[ESP32-C3](#)

[Grafana Documentation](#)

