


National Textile University, Faisalabad




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Registration No:	23-NTU-CS-1074
Lab Report:	EMBEDDED IOT
Course Code:	IOT
Course Name:	EMBEDDED IOT
Submitted To:	SIR NASIR
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Home

Projects

Inspect

Libraries

Boards

Platforms

Devices

Welcome to PlatformIO

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+ New Project

📁 Import Arduino Project


📁 Open Project

📄 Project Examples



Core 6.1.18 · Home 3.4.4

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IoT for Beginners

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Microsoft leverages PlatformIO for its course "IoT for Beginners" 📄

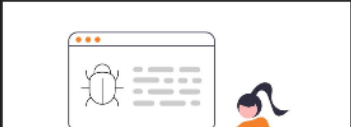
A free, open-source, 12-week/24-lesson #IoT curriculum designed for beginners

struct (x86-64)		
char a	padding (3 bytes)	int b (4 bytes)
double c (8 bytes)		
char d[10] (10 bytes) ...		
d (continued)	padding (6 bytes)	

PlatformIO Labs · 4d

#LearnEmbedded 📄 "Structures in C: From Basics to Memory Alignment" by Andreas Heck

Discover the power of structures in C:



Enhancing Code Quality

PlatformIO Labs · 1w

#BestPractices 🔥 "Enhancing Code Quality with PlatformIO, SonarCloud and GitHub Actions" by Pascal Roobrouck

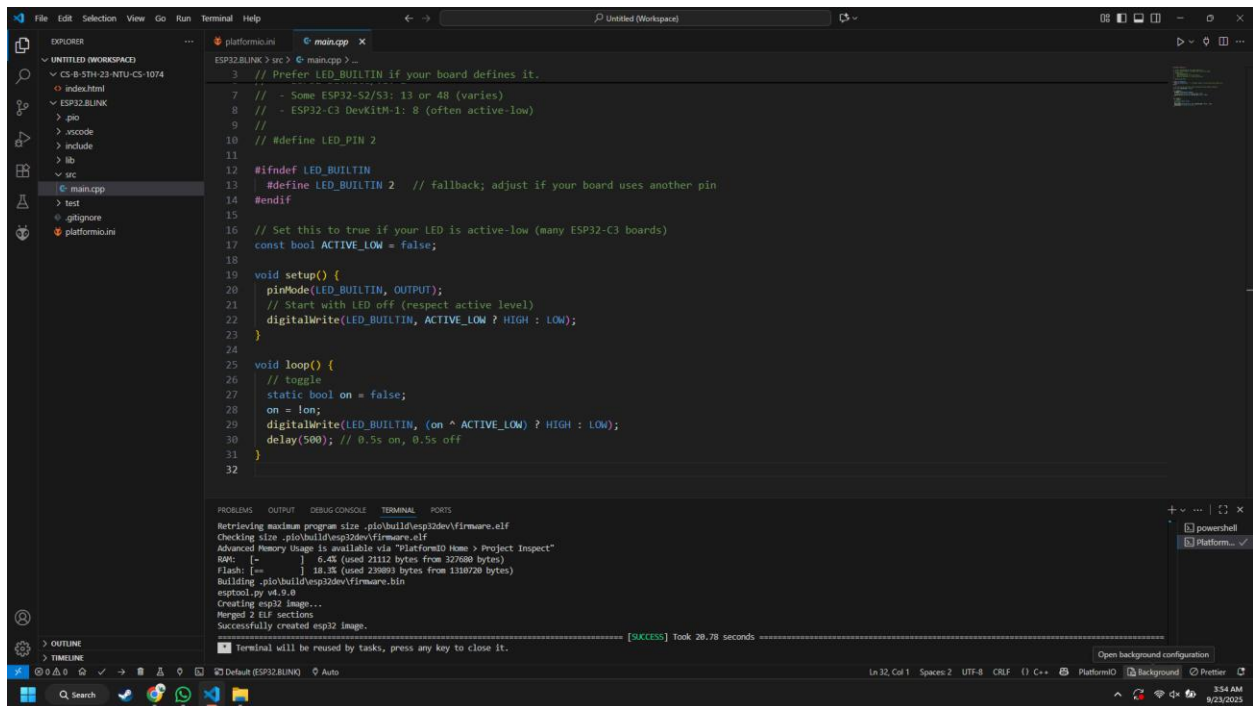
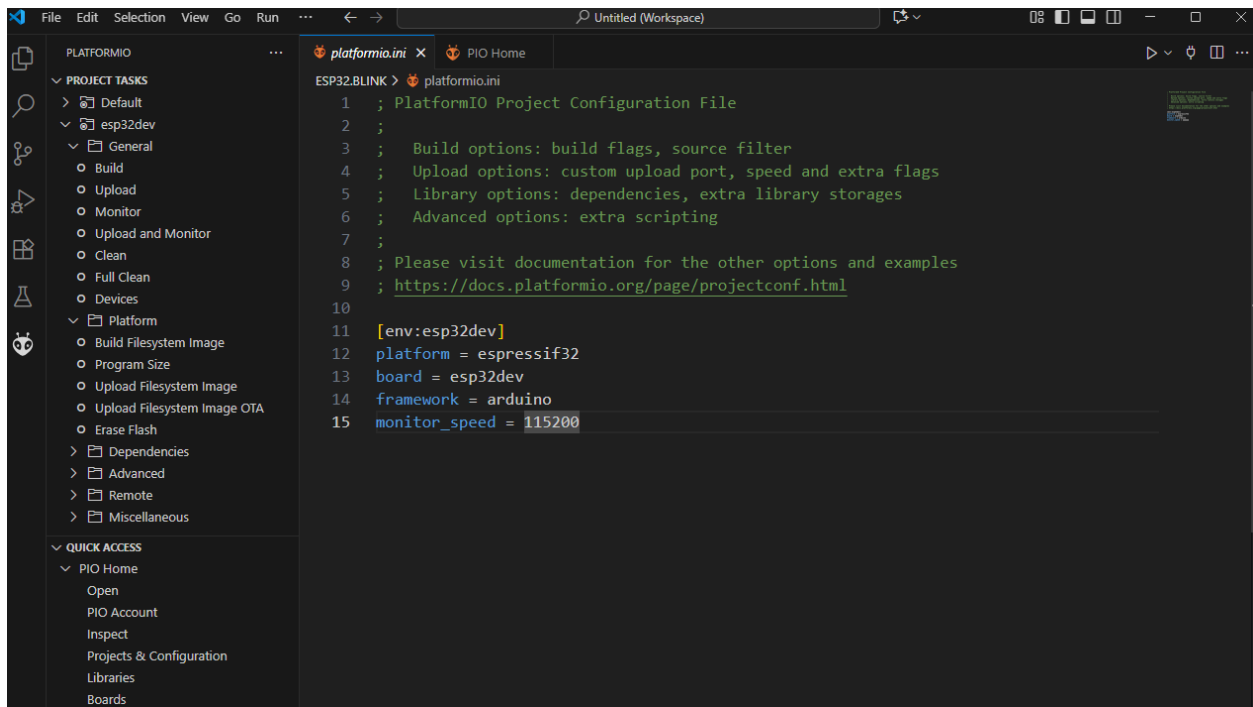
👉 <https://lnkd.in/dxxADMBT>

Recent Projects

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

powershell + ▾ 🗑️ ... | 📄 ×

PS C:\TALAL EMBEDDED IOT\ESP32.BLINK>



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Retrieving maximum program size .pio\build\esp32dev\firmware.elf
Checking size .pio\build\esp32dev\firmware.elf
Advanced Memory Usage is available via "PlatformIO Home > Project Inspect"
RAM:  [=      ] 6.4% (used 21112 bytes from 327680 bytes)
Flash: [==     ] 18.3% (used 239893 bytes from 1310720 bytes)
Building .pio\build\esp32dev\firmware.bin
esptool.py v4.9.0
Creating esp32 image...
Merged 2 ELF sections
Successfully created esp32 image.
===== [SUCCESS] Took 28.78 seconds =====
Terminal will be reused by tasks, press any key to close it.
```