Almouta Auroaawali CONP 499

Sultan Qabbos University College of Engineering

College of Engineering
Office of Assarbulut General Training and Community Services

Weekly Report
Week #:
Date:

10/07/2025				
Wi Fi Packet Sniffer Using ESP32 for Wireless Do	vice Detection a	ınd Basic Network Monitoring		
Full Name: Learn Wi-Fi frame types 2. Set up ESP32 dev Department: CAE DECE DMIE DP				
Department: CAE CEC MIE PlatformIO, Created sniffer, Frame capture	Mobile: nel hopping, README			
Full Name: Email: racking aptured management frames, Real-time analysis, SSID extraction, Stats tracking				
Training Company & Department: Noisy output, Frame structure, Channel timing		Tel./Mobile:		
Filtering, Classification, Channel switching		Landa - 41 da 1-)		
Tasks Completed (Briefly Describe any tasks that you completed during this week): Device tracking, Signal grouping, Anomaly detection, Stats reporting				
Device tracking, Signal grouping, Anomaly detection, Stats reporting • • •				
• 15-20 hours, ~300 lines, main.cpp, platformio.ini, README.md				
Tasks #s P32 gwrsveif DuvyBoard				
PlatformIO, Arduino Framework, Serial Monitor	•			
WiFi, esp_wifi, esp_event, esp_log, nvs_flash Dev setup, Frame capture, Filtering, Channel hopping, GitHub repo				
https://github.com/outla898/esp-sniffer				
Plan for sextex care he in the fraction of the sextex of t				
•	•			
•	•			
•	•			
Problems/Challenges/Recommendations (if any):				
Supervisor Comments (your feedback is very important for our continuing improvement):				
Supervisor Comments (Jour recueuch is very impor				
Student: I have read and understood the whole content of the Students' Training Manual.	-	best to guide the student toverequired deliverables.	vards	
Signature:	Signature:			

<u>Note</u>: A copy of this report should be faxed to 24413416 or scanned and emailed to your SQU supervisor on a weekly basis. Originals should be placed in the Appendix of the **Final Report.**