CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. DAROUEZ OUSSAMA

has successfully participated in the

"Altium Designer Pro - From Design to Manufacturing"

Organized by Thameur CHEBBI

Training Details

- **Date:** 12/10/2024 to 09/11/2024
- **Location:** Online
- **Duration:** 21 hours
- **Instructor:** Thameur CHEBBI

Acquired Skills:

1. Mastered **advanced features in Altium Designer**.
2. Exhibited proficiency in implementing **advanced PCB design techniques**.
3. Proficiently designed versatile **2-layer** and **4-layer** PCBs.
4. Developed **symbols** and **footprints** in strict accordance with **IPC standards**.
5. Demonstrated expertise in designing PCBs tailored for **high-speed** and **mixed signals**.
6. Effectively applied **SPI, I2C, UART**, and **USB** protocols in PCB design.
7. Successfully conducted **electronic circuit simulations** using **LTspice.**
8. Generated comprehensive and standardized **documentation**, facilitating efficient **fabrication** and **assembly** of PCBs.
9. Demonstrated expertise in **programming**, **testing**, and **debugging** ATmega328P-based PCB using (**ICSP**) and **bootloader** methods, with **troubleshooting** techniques.

Thameur Chebbi

Thameur CHEBBI
Advanced PCB Design Trainer
Senior Hardware Development Engineer