





📀 SOFT SKILLS

Communication Creativity Critical thinking Adaptability Teamwo Management Intiative Probelm solving



Quest Lab, Pakistan

(07/2019 - 10/2019) Internee as Mechatronics Englineer at Quest Lab. Developed a 3-axis mini CNC machine

National Institute of Electronics (09/2018 - 10/2018)

Internee as Electronics Engineer at SMT lab, NIE.

M Tahoor Aasim

Embedded Systems Engineer | PCB Designer

Tahoor is a seasoned Embedded Systems specialist focused on hardware/ PCB design and firmware development. With a proven track record of collaborating with diverse organizations, he has crafted innovative solutions. His expertise extends to consumer electronics and the creation of customer-centric applications.

- 🔀 tahoorasim27@gmail.com
- +92-323-5574430

💡 Islamabad, Pakistan

in linkedin.com/in/tahoor27

WORK EXPERIENCE

Embedded Engineer & Project Manager 607 Regional Workshop, Pakistan

02/2022 - Present

Achievements/Tasks

- Incharge of planning, control and quality management.
- Indigenous development of PCBs and reverse engineering, reducing procurement and manufacturing costs.
- Development of defence-affiliated projects, and maintenance of combat vehicles.

Hardware Engineer & PCB Designer

Upwork Freelancer

01/2022 - Present https://www.upwork.com/fl/tahoor2627

Achievements/Tasks

- Top-rated Freelancer on Upwork, with five-star reviews and 100% job success score.
- Providing services as an expert PCB designer and firmware developer.
- Collaboration with multiple startups and organizations to develop ready-to-launch products.

Embedded Systems Engineer

Blitzkrieg Defense Solutions| Cavalier Group, Pakistan

07/2021 - 12/2021

- Achievements/Tasks
- Developed an unmanned ground vehicle for carrying autonomous navigation of preplanned missions.
- Development of UAV with a weapon cradle system augmented with target detection.
- PCB design of custom development boards to be used in various applications.

PROJECTS

Unmanned Ground Vehicle

- OUGV based on Nvidea's Jetson Nano, working on ROS.
- $^{\circ}\,$ User defined waypoints and path generation for autonomous navigation.

Wireless Bluetooth Speakers

- Bluetooth speakers for professional bike riders; integrated with Microchip's BM20 Audio module.
- $^{\circ}\,$ Detachable design and seamless connectivity over Bluetooth 5.0.

Green House Automation

- $^{\circ}$ Based on AVR's ATMEGA 328, augmented with Esp32 for WiFi and BLE connectivity.
- $^{\circ}\,$ Six channels to control actuators, motors and sensors.



Embedded Systems

Microcontrollers

Cosumer electronics

Circuit design

Prototyping



English Full Professional Proficiency

Urdu Native or Bilingual Proficiency

PROJECTS

Pixel LED Controller

- Based on Esp32 S3 with support for WLED.
- 8-channels for connecting LED strips.
- Onboard power distribution, capable of safely providing upto 50A of current.

PC Switch

- Based on Esp32 C3 mini, to control Desktop PCs wirelessly.
- $^{\circ}$ Compatible with most motherboards to access the system via the USB 2.0 plug.

Wireless Typewriter and Mechanical Keyboard

- Wirless keyboard compatible with MX key switches.
- $^{\circ}$ Onboard OLED display for typing on the go, with documents being saved in cloud.
- $^{\circ}\,$ Connectivity via windows/ Mac through bluetooth or USB.

Breathpacing Wearable

- $^{\circ}\,$ Smart wearble device to monitor a person's breathing.
- $^{\circ}\,$ Onboard haptic feedback to allowing user to pace their breathing as per defined intervals.

EDUCATION

Masters in Engineering Management

Sir Syed Case Institute of Technology, Pakistan

09/2022 - Present

Thesis

 Evaluating components of Lean Integrated Management System impacting technological innovation

Bachelors in Mechatronics Engineering

National University of Science and Technology, Pakistan

07/2017 - 07/2022

Thesis

 GPS triangulation for accurate waypoint navigation for unmanned ground vehicle CGPA-3.50

CGPA-3.65