

ABDUL WASE KHAN

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Education

NUST	Islamabad
<i>Master of Electrical Engineering</i>	2025 - Present
INSTITUTE OF SPACE TECHNOLOGY	Islamabad
<i>Bachelor of Electrical Engineering</i>	2021 - 2025
READS COLLEGE	Karachi
<i>A level</i>	2018 - 2020

Professional Experience

AJK POWER DEVELOPMENT ORGANIZATION Muzaffarabad, AJK

Completed a two-month internship at the Hydro Power Station under PDO, gaining practical experience in automation and control systems used in hydropower operations.

Internship July – August

- *SCADA Systems:* Monitored and analyzed system operations for efficient hydropower control.
- *PLC Programming:* Assisted in configuration, testing, and troubleshooting of PLC-based automation systems.
- *Power Station Operations:* Gained understanding of control integration in hydropower generation.
- *Technical Documentation:* Prepared maintenance logs and system performance reports.
- *Team Collaboration:* Worked with engineers and technical staff on system optimization and safety practices.

AMAL ACADEMY Lahore, Pakistan

Education startup funded by Stanford University that teaches professional skills to students and corporations

Career-Prep Fellow April 2024-June 2024

- *Communication:* Completed a competitive written application and interview process to be selected from over 4500 applicants for intensive 3-month Fellowship funded by Stanford University
- *Skills development:* Invested 150 hours to develop business skills (e.g., communication, leadership, problem solving, teamwork, etc.) that will help me make a deeper impact on the job

KARACHI SHIPYARD & ELECTRIC WORKS LTD Karachi, Pakistan

Completed a six-week internship at Karachi Shipyard & Engineering Works Ltd., gaining hands-on experience in power systems, ship electrical systems, and industrial troubleshooting

Internship July - August

- *Ship Electrical Systems:* Understanding of electrical components used in shipbuilding and repair.
- *Safety and Compliance:* Adherence to ISO-certified standards for workplace safety and environmental responsibility.
- *Team Collaboration:* Working with engineers and technicians in different departments.

Academic Experience

DEEP LEARNING BASED CRYPTOGRAPHY May 2024 – June 2025

Developed a deep-learning-based cryptographic system, enhancing security and efficiency in medical image encryption.

Project Lead

- *Critical Thinking:* Evaluating security vulnerabilities and improving encryption techniques
- *Time Management:* Balancing research, development, and testing phases efficiently
- *Problem Solving:* Coordinating efforts in protocol development, testing, and performance analyzing to achieve project goals

Extracurricular & Volunteer Experience

IST YOUTH CLUB, YPDC & IEEE IST CHAPTER

Collaborating on innovative robotics projects and promoting STEM education such as RC Planes, Robots arm and Drones

Vice President

- *People Management:* Led a team of 150 people, management efforts, coordinated team activities, resolved conflicts, and fostered a collaborative environment. Focused on motivating members and optimizing team performance to achieve organizational goals

TEDxInstituteOfSpaceTechnology

Served as Vice Curator and Co-Organizer for TEDxInstituteOfSpaceTechnology 2025, a flagship student-led event promoting innovation, technology, and creative collaboration.

Vice Curator and Co-Organizer

- *Event Management:* Assisted in planning, coordination, and execution of multiple sessions, workshops, and competitions.
- *Team Leadership:* Supervised and guided organizing teams to ensure smooth event operations.
- *Collaboration:* Worked closely with faculty mentors, sponsors, and student bodies for resource and logistics management.
- *Public Engagement:* Contributed to outreach campaigns, participant coordination, and on-ground event facilitation.
- *Strategic Planning:* Supported event scheduling, task allocation, and problem-solving during live sessions.

Honors and Awards

ONLINE COURSES

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| - Deep Learning (Coursera) | 2025 |
| - Work Smart with Microsoft PowerPoint (Coursera) | 2023 |

ADDITIONAL

- *Technical Skills:* Power Electronics, Circuit Design, Digital System Designs, FPGA,SDR
 - *Certifications:* Arduino, C++
 - *Interests:* Technology Management, Cricket
 - *Language:* English, Urdu
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