

MUHAMMAD TARIQ SHAH

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Professional Experience/ Work History

National Centre of Robotics and Automation(NCRA)

Rawalpindi, Pakistan

Engineering Intern- (June 2022 – September 2022)

- Worked in a team consisting of 2x supervisors, 4x research assistants, and 5x interns on the "Agribot" research project.
- Created a Gantt chart, and centralized project materials online for efficient work progress.
- Arranged 3x robotic workshops helping 45x college students, taught kinematics, path-planning, and applications of robots.

Heavy Industry Taxila (HIT)

Taxila, Pakistan

Engineering Intern - (August 2021 – November 2021)

- Did detailed case studies on the Al Khalid tank and VT-4 tank and wrote 40x pages comparison report.
- Worked with a team of two on a successful research project to convert the turning mechanism of the Al Khalid tank.
- Attended 5x Health, Safety, and Environment workshops and gained valuable knowledge about HSE.

BEST NGO

Peshawar, Pakistan

Assistant Supply Chain - (June 2020 – October 2020)

- Delivered humanitarian aid and relief supplies accurately and on time to 32x beneficiaries.
- Reduced operational costs by 10% by calculating variations in agreed contractual amounts versus actual expenditures.
- Established inventory management systems, and centralized online mediums for inventory and warehouse management.
- Provided regular reports & updates to management, managed receipts of logistics, procurements, and transportations.
- Trained 15x staff in digital performance management.

Fatima Group

Lahore, Pakistan

Campus Ambassador - (January 2022 – December 2022)

- Acted as a liaison between the company and university, organized 10x recruitment drives, attracted over 500x attendees.
- Promoted company's campaign through social media & events, leading to recognition as the ambassador of the month.

United Nations Academic Impact and Millennium Campus Network

Rawalpindi, Pakistan

Millennium Fellow - (August 2022 – September 2022)

- Selected as a Millennium Fellow out of 31,000+ applicants.
- Coordinated with a team of 17 fellows in an educational project "JUSTAJOO", helping 250+ underprivileged students.

Amal Academy

Lahore, Pakistan

Amal Fellow - (June 2021 – September 2021)

- Led a team of 13 individuals to raise 100,000 PKR to set up a business for a deserving dependent individual.

Extracurricular and Volunteering Activities

NUST Volunteer Club (NVC)

Rawalpindi, Pakistan

Vice President - (June 2021 – December 2022)

- Conducted 3x recruitment drives, both internal and external, and hired 45x members for society governing body.
- Arranged book stall by collecting 700+ spare books from seniors' students and generated 12000 PKR for charity.
- Organized 2x bake sales, 1x charity concert and generated 150,000 PKR funds for charity.
- Successfully executed 1x summer, and 1x winter cloth street drives, and benefitted 150+ families.
- Manager daily emergency medical cases and financial cases.

American Society of Mechanical Engineering

Rawalpindi, Pakistan

Director HR - (May 2020 – January 2023)

- Recruited a team of 25x of directors, a team of 40x of deputy directors.
- Extended society outreach by creating social media pages on LinkedIn, Facebook, and Instagram.
- Promoted society at campus through annual registration campaign, delivered a convincing presentation to the freshies generated 60,000 PKR through paid registration.
- Added 15+ refreshment and competition events to the portfolio by successfully leading them.

NUST Placement Office (NOP)

Rawalpindi, Pakistan

Assistant Placement Office - (June 2021 – February 2023)

- Assistant placement office in organizing 15+ webinar.
- Arranged avenues, oversight the managements and did hosting in 20x recruitment drives of different companies.
- Invigilated in 10+ recruitment drives of different companies.

Core, Soft skills, and Competencies

- **Leadership** Led 21 individuals to renovate a school for special kids, managing all procurement & organization.
- **Organization** Headed 30 individuals for Fund Raising Concert 2020 raising 8000 GBP& catered to 3000+ guests.
- **Communication** Delivered workshops and overlooked PR departments for clubs and worked as a technical.
- **Team Coordination** Led the collaboration between Hassan Academy & NUST Volunteers Club for philanthropic projects.
- **Analytical Skills** Provided solutions leading to a 30% efficiency of the campus' foundry shop through LCC analysis.

Projects, Technical Skills, and Tools

- Path Planning of Robotic Manipulator (FYP)** | ROS, MATLAB, ANSYS, Fibersim, RobotDK, Gazebo, Python & Fusion 360
- Developed path planning algorithms for a robotic manipulator resulting in optimized movement and improved efficiency.
- Airline Management System Project** | MySQL, C++, Visual Studio, HTML, Node.js, Django, Apache, and Git
- Implemented an airline management system resulting in streamlined operations, and improved customer experience.
- IoT-Based Health Monitoring Project** | Arduino, ESP32Wi-Fi, Google Cloud IoT Core, GC Storage, Flutter, & sensors
- Implemented IoT-based health monitoring system resulting in real-time tracking of vital signs, and improved patient care.

Education

National University of Science and Technology (NUST)	<i>Sept 2019– Sept 2023</i>
<i>Bachelor of Mechanical Engineering (Minor in Machine Learning)</i>	<i>CPGA:3.36/4</i>

Courses

Communications Skills, Customer Relationship Management (CRM), Technical and Business Writings, Data Analysis, Project Management ,Engineering Economics, Project Management, Financial Analysis, Engineering Economics, and HSE.

Government College Peshawar	<i>April 2017– April 2019</i>
<i>Intermediate: Physics, Mathematics, and chemistry (A level Equivalent)</i>	<i>85%</i>

Languages

English, Urdu, Pashto, and Punjabi.