

## MUHAMMAD TARIQ SHAH

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### Education

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<b>NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY (3.50/4.00)</b>	Islamabad, Pakistan
<i>Bachelor of Mechanical Engineering</i>	2019-2023

### Final Year Project

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<b>AUTOMATED COMPOSITE MANUFACTURING USING ROBOTIC LAYUP OF PREPREG</b>	Islamabad, Pakistan
In this HEC Funded project, path planning algorithms are used to determine the optimal path, the manufacturing process is aided by various software tools, including Fibersim, RobotDK, MATLAB, and ROS.	

### Professional Experience

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<b>National Centre of Robotics and Automation</b>	Islamabad, Pakistan
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NCRA, is one of the most advanced centers for automation and robotic research.

*Mechanical Engineering Intern: (June 2022 – September 2022)*

- *Research:* Designed end effector for collaborative robots.
- *Technical:* Learned working on most advanced machines, like 5 axis CNC machine, laser machine etc.

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<b>AMAL ACADEMY</b>	Lahore, Pakistan
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Education startup funded by Stanford University that teaches professional skills to students and corporations

*Career-Prep Fellow: (November 2021 – September 2021)*

- *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:* Investing 150 hours to develop business skills (e.g., communication, leadership, problem solving, teamwork, etc.) that helped me make a deeper impact on the job.

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<b>FATIMA GROUP</b>	Lahore, Pakistan
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It is engaged in trading of commodities, manufacturing of fertilizers, textiles, sugar, mining, and energy.

*Campus Ambassador: (November 2021 – June 2022)*

- *Organizations & Communication:* Liaised between the university and the company.

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<b>HEAVY INDUSTRY TAXILA</b>	Taxila, Pakistan
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It is a Pakistani state-owned defense, military contractor, engineering conglomerate and military operation.

*Mechanical Engineering Intern: (August 2021 – September 2021)*

- *Problem Solving:* Designed a creative solution for conversion of stick turning to stirring mechanism.
- *SOLIDWORKS:* Design 3D cad model of the mechanism in SOLIDWORKDS and ran simulation.

### Academic Experience

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<b>AIRLINE MANAGEMENT SYSTEM PROJECT</b>	Islamabad, Pakistan
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Semester project of programming subject to make a program which manages ticketing system of airline

*Team Lead: November 2019 – December 2021*

- *Creativity:* Developed a creative logic code for system with no bugs which was appreciated.

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<b>IOT BASED HEALTH MONITORING PROJECT</b>	Islamabad, Pakistan
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Mega project of semester

*Team member: (November 2019 – February 2021)*

- *Android App and Website development:* developed a feasible solution for saving the data over the Google cloud and retrieving the data of the patient on the app.

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<b>DAR-UL-IYANAT PROJECT</b>	Islamabad, Pakistan
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Mega project of 3 months supervised by Amal Academy to make an individual dependent, independent

*Team member: (November 2019 – February 2021)*

- *Commitment:* Reached and convinced 500+ students in 5 hostels, sold socks, generated 20k+ revenue.

### Additional

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- **Technical Skills:** Microsoft, MATLAB, ANSYS, AutoCAD, Fusion360, C++, Python (Programming Language), Solid works, Fibersim, RobotDK, HAP, CarSim, and Creo.
  - **Soft Skills:** Analytical skills, Teamwork, flexibility, Communication and presentation, Problem solving and innovation and Creativity.
  - **Language:** English, Urdu, Pashto, and Punjabi.