

MUHAMMAD WASEEM

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Google Scholar: <https://scholar.google.com/citations?user=KZctKDAAAAAJ&hl=en>

RESEARCH INTERESTS

Smart manufacturing; Modelling; Data analysis and optimization; Machine learning; System control.

EDUCATION

- **PhD. in Mechanical and Aerospace Engineering** Jan_2022- Present
University of Virginia, Charlottesville, USA
Research Area: Smart Manufacturing Systems and Control
Supervisor: Dr. Cindy Qing Chang
- **M.Sc. in Industrial Engineering** 2017- 2019
University of Engineering & Technology Peshawar, Pakistan
Specialization: Manufacturing Systems Engineering
Total GPA: 4.0/4.0 (*Graduated with Distinction*)
- **BS in Industrial Engineering** 2013- 2017
University of Engineering & Technology Peshawar, Pakistan
Total GPA: 3.90/4.0 (*Gold Medalist*)

EXPERIENCE

- **Graduate Research Assistant-UVA** Jan-2022 -- Present
 - ◆ Modelling and analyzing multiproduct flexible manufacturing systems
 - ◆ Controlling production systems based on Reinforcement and deep reinforcement learning
- **Instructor-Manufacturing lab UET-Peshawar** Mar-2019 – Dec-2021
 - ◆ Demonstrated the lab activities and assisted senior faculty in research projects
 - ◆ Managed and supervised lab staff and undergrad students
 - ◆ Helped the department in initiating of outcome-based education (OBE) system
 - ◆ Helped in the installation of integrated factory system (IFS) at the automation and control lab
 - ◆ Enhanced the student's satisfaction by ensuring that the course is highly sought after by employers
- **Instructor-Mechanics lab** (National University of Sciences and Technology Pakistan) Sep-2018 -- Mar-2019
 - ◆ Taught and demonstrated the lab activities
 - ◆ Briefed the international delegates
 - ◆ Arranged training and motivational sessions for the lab staff
 - ◆ Managed, supervised, and reported the third-party projects
- **Shift Engineer-DYNEA Pakistan Petrochemicals** Sep-2017 -- Aug-2018
 - ◆ Supervised, managed and trained new workers on plant activities
 - ◆ Helped in the design and fabrication of Methanol storage tank
 - ◆ Designed a layout for installation of new Molding Compound Powder plant
 - ◆ Improved the production quantity by batch-time optimization
 - ◆ Eliminated unnecessary activities and reduced worker fatigue by analysis and modification of material handling equipment
 - ◆ Participated in the Research & Development

INTERNSHIPS

- **Engineering Intern-MOL Pakistan oil & Gas** Summer 2016
 - Designed and developed material data flow (MDF) sheet for warehouse' data management
 - Understood the Corporate Services' activities
 - Visited and observed well-site exploration and extraction processes
- **Corporate Services Intern, East West Trading International (EWI), U.A.E** Summer 2014
 - Managed inventory at the warehouse
 - Coordinated with suppliers, inspected the received orders and generated the reports

SOFTWARE SKILLS

- **Engineering:** PTC Creo, Solid-works, Ansys Workbench, Abaqus, Arena Simulation, Simio, AnyLogic
- **Programming:** MATLAB, Python
- **Others:** SPSS, Minitab, Microsoft Office, Microsoft Project