

# Hadia Fakhar

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Product Design | Mechanical Design | Mechanical Testing | Capacity Planning | Six Sigma Foundations | Statistical Analysis  
Process Improvement | Production Process | Process Control | Root Cause Analysis | Troubleshooting

## Material / Process / Quality / Manufacturing Engineering

### Summary:

- Highly skilled and detailed oriented master of Scientist in engineering management graduate student with a keen interest in Material, Process, Quality or Manufacturing Engineer.
- Collaborated with experienced professionals to optimize manufacturing processes and implement cost-effective solutions.
- Engaged proactively in the design phase through the development and refinement of CAD models.
- Conducted material testing and characterization to determine properties such as strength, durability, and thermal conductivity.

### Education:

- California State University East Bay, Hayward, CA:** Master of Science in Engineering Management | GPA: 3.70 **Anticipated May 2024**
- Institute of space technology University, Pakistan:** Bachelor in Material Science & Engineering | GPA: 3.21 **Aug 2021**

### Certifications:

- National Association of State Boards of Accountancy (NASBA) – March 2023

### Technical Skills:

- CAD:** CATIA, Autodesk | **CAE:** ANSYS Workbench, Simulation
- Technical Ability:** Engineering Design, Power Tool handling, 2D/3D/4D Printing, Simulations
- Management Skills:** Product validation, Project Coordination, Team management
- Abilities:** Operations Management, Procurement, Sourcing, Kaizen, Kanban, Lean Manufacturing, Production Engineering, Automation Equipment, Prototype Development, Manufacturing Engineering
- Expertise Area:** Mechanical system Design, Computer-Aided Design, Production Process, Material Selection, GD&T ASME Y14.5, Sheet Metal & Plastics Design, Failure Analysis, Material testing, Quality Control, material synthesis (polymers, ceramic, metal)
- Proficient in quality management software (QM) and Pro Model for simulation and analytical tasks.

## Work Experience

### Receptionist | Student center of Academic Achievement, Hayward, CA **Aug 2023 – Present**

- Handling confidential student information while ensuring compliance with university policies.
- Proficient in Excel and actively utilizing the university's website Bay Advisor and excel for streamlined appointment scheduling.
- Coordinate with academic advisors, tutors, and other staff to ensure seamless delivery of services to students.

### Customer Service Representative | Sapphire Properties, Pakistan **Feb 2022 – May 2022**

- Engaged in daily communication with approximately 50 customers via calls to address inquiries about the company's multiple projects.
- Employed advanced communication for daily follow-up calls with up to 20 individuals, identifying potential clients to company growth.
- Participated in training sessions to stay updated on product knowledge, customer service techniques, and industry best practices.

### General Fabrication Intern | Precision Engineering Services, Pakistan **May 2019 – Aug 2019**

- Perform design engineering analysis, review engineering documentation and capture and document root cause analysis.
- Effectively address defective products by employing rigorous problem-solving methodologies like 8D & RCA, alongside proficient management of corrective actions. Establish reliable tracking systems to ensure continual quality enhancement & operational efficiency.
- Facilitate the oversight of manufacturing processes, develop and maintain quality data systems, identify opportunities for continuous improvement, and execute best practices implementation to enhance operational excellence.

## Projects

### New Office Building Construction Project: Risk Management and Mitigation, California State University, East Bay **Dec 2023**

- Currently collaborating with classmates to assess and mitigate potential risks in building a new office building, including conducting risk assessments and using a Risk Assessment spreadsheet to evaluate the impact of identified risks on project cost and schedule.

### Fabrication of Nb2O5/ITO Electrochromic films for smart window application (Thesis Project) **2021**

#### Institute of space technology, Pakistan

- Successfully employed e-beam deposition to coat a 200nm thick Nb2O5 layer on glass and utilized XRD characterization method, Rutherford and UV-Vis spectroscopy to achieve optimal results.

## Relevant Learning Outcomes

### Quality and Reliability Management

- Acquired proficiency in Lean Manufacturing methodologies, including 6 Sigma systems, Value Stream Mapping (VSM), and 5S systems.
- Developed skills in statistical methods for data analysis, encompassing techniques for data collection, graphical representation, and analytical interpretation.

### Material testing and Characterization

- Developed expertise in interpreting SEM, XRD, and EDS data, enabling comprehensive analysis of materials' microstructure and properties.
- Demonstrated proficiency in a wide range of metallographic analysis techniques, including polishing, etching, and optical microscopy, to evaluate material samples and ensure quality standards.