

Rashid T. Momin

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“Production Engineering student with an aim to derive relevant solutions in industry and research.”

Education

Veermata Jijabai Technological Institute (VJTI) - Mumbai, India	
B. Tech in Production Engineering with Minor in Sustainability (8.1 CGPA)	2025-Present
Diploma in Mechanical Engineering – (9.50 CGPA)	2022-2025

Skills

Software: AutoCAD, SolidWorks, Fusion 360, Afdex, Z-Cast Pro, Abaqus

Technical: Traditional Machining, Extrusion, Quality Inspection, Research

Experience

Diploma Intern, Maharashtra Electrical & Mechanical Works (MEMW)- Mumbai, India	2024
<ul style="list-style-type: none">● Drafting of coupling geometry for workshop as per Tender requirements.● Finite Element Analysis (FEA) of coupling designs under constant loading.● Machine operations, maintenance and tool management.● Shop Floor Supervision and Quality Inspection for products.	
<i>Outcome: Sponsorship for Diploma project regarding Filament Extruder.</i>	

Student Research, VJTI – Mumbai, India	2022-Present
<ul style="list-style-type: none">● Undergraduate Student (UG) Research in Electromagnetic Impulse Forming: Electromagnetic Self Piercing Riveting.● Diploma Student Research regarding:<ul style="list-style-type: none">• Material Science and Metallurgy (HEAs, Microstructure, Surface Improvement)• Manufacturing Science (Machining Optimization, Diamond Grinding, Quality Control in Additive Mfg.)	
<i>Outcome: Gained 25,000+ Reads with a Global Audience and ResearchGate score of 49.5</i>	

Clubs/Research Societies

Industrial Engineering & Operations Management Society (**IEOM**), Synergysts **FCC Club** of VJTI, Society of Automotive Engineers (**SAE**)

Projects/Research

PORTABLE ABS FILAMENT EXTRUDER, VJTI & MEMW	2024 -25
<ul style="list-style-type: none">● Working assembly at a fraction of manufacturing cost (50-60%) as compared to extruders available in the market.● Sponsored by Maharashtra Electrical & Mechanical Works (MEMW Ltd.)● In-house manufacturing from scratch under supervision of the institute and sponsor.● Robust Design for long and heavy operation, maximum temperature limit of the assembly 300-450°C.● Suitable for other polymers too (PLA and blends).	
<i>Outcomes: Presented at International Conference, won BEST TECHNICAL PAPER @ Sathyabama University, Chennai Participated at National Level DIPEX Competition @ COEP, Pune.</i>	

RESEARCH, VJTI	2022-25
<ul style="list-style-type: none">● Simulations of metal forming (Self Piercing Riveting) on AFDEX.● Investigating the Impact of Diamond Grinding Wheels on the Metallurgical Properties of Ball Bearings. (Preprint)● High Entropy Alloys (HEAs): Properties, and Engineering Applications. (Preprint)● Study of degradation of materials by radiation damage in Nuclear Fusion Reactors. (Preprint)● Piezoelectric Sensors for Real-time Monitoring and Quality Control in Additive Manufacturing. (Preprint)	

Simulations/Drafting:



