PURNENDU PRAMANIK

Mechanical Engineer

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PROFESSIONAL SUMMARY

Mechanical Engineering professional with a B. Tech and Diploma in Mechanical Engineering, supported by hands-on experience in **agricultural machinery testing, 3D modelling, technical reporting, machine assembly and practical training**. Complete the Department of Science and Technology sponsored Project Universal ROPS. Experienced through CSIR-CMERI's Farm Machinery Training & Testing Center in testing and operating power weeders, seed drills, multicrop threshers, rotavators, maize threshers, roto-cultivators, paddy transplanters and reapers, including engine testing below 10 HP. Also, with exposure to engineering drawings, SolidWorks, AutoCAD, MS Excel, manufacturing processes and cross-functional coordination.

CORE COMPETENCIES

- Agricultural Machinery R&D
- AutoCAD / CAD Drafting
- Technical Documentation
- MS Excel & Data Analysis
- Farm Machinery Testing
- Engineering Drawings
- Test Report Preparation
- Manufacturing & Fabrication Exposure
- SolidWorks 3D Modelling
- Machine Assembly
- Performance Assessment
- Team & Cross-Functional Coordination

PROFESSIONAL EXPERIENCE

CSIR – CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE (CSIR-CMERI) |
Project Assistant
October 2023 – May 2026 | Farm Machinery Training & Testing Center, Durgapur

- Complete the Project Universal ROPS (Roll-Over Protective Structure) of tractor (Design 3D model, Field testing and Development).
- Conducting testing of different agricultural machinery and implements at the Farm Machinery Training & Testing Center.
- Creating 3D models/drawings of machinery components using SolidWorks.
- Executing product testing and performance assessments to identify areas for improvement and innovation.
- Preparing draft and detailed test reports, documenting results, technical issues and suggested solutions.
- Maintaining organized technical test-report documentation.
- Providing hands-on training to B. Tech, ITI and Diploma students in agricultural machinery operation and testing.

CSIR – CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE (CSIR-CMERI) |
Apprenticeship Trainee
October 2022 – October 2023

- Learned agricultural machinery testing methods.
- Developed 3D models and supported CAD drafting activities.
- Prepared draft technical reports.
- Supported assembly of machine components.

EDUCATION

Qualification	Institute / Board	Year
B. Tech – Mechanical Engineering	Camellia Institute of Technology, affiliated to MAKAUT	2025
Diploma – Mechanical Engineering	Camellia Institute of Technology, affiliated to WBSCTE	2022
Intermediate (10+2)	West Bengal Board of Higher Secondary Education	2018
Secondary (10th)	West Bengal Board of Secondary Education	2016

TECHNICAL & PROFESSIONAL SKILLS

Software: SolidWorks, AutoCAD, MS Office, MS Excel.
Technical: 3D Modelling, CAD Drafting, Machinery Testing, Experimental Setup, Technical Documentation, Test Report preparation.
Professional: Research & Analytical Thinking, Problem Solving, Team Collaboration, Project & Time Management, Adaptability, Quick Learning.

WORKSHOPS & PROFESSIONAL TRAININGS

- **Promoting Gender Diversity in Agriculture through Design of Safe & Ergonomic Farm Machinery** – CSIR-CMERI Durgapur (2024).
- **Modern Agriculture Technique and Machines Training** – CSIR-CMERI Durgapur (2023).

PERSONAL BIO

• **Personal Profile:** Father's Name: Pranab Pramanik | DOB: 13/09/2000 | Marital Status: Single | Languages: English, Hindi, Bengali | Hobbies: Playing Football, Gardening, Learning.

DECLARATION

• **Declaration:** I hereby declare that all the information provided above is correct to the best of my knowledge and belief.