KAWIN B K

B.Tech. Polymer Engineering Student | CIPET DPMT Graduate
Chennai, Tamil Nadu, India
+91 9361125151 | nammakawin@gmail.com
LinkedIn | GitHub
nammakawin.com

Professional Summary

Motivated Polymer Engineering student with hands-on experience in polymer processing, injection moulding, mould design, polymer characterization, and manufacturing technologies. Skilled in Creo, CATIA, AutoCAD, Fusion 360, MATLAB, and quality control methodologies. Strong interest in automotive plastics, additive manufacturing, and smart manufacturing systems.

Education

B.S. Abdur Rahman Crescent Institute of Science and Technology 2024–2027
B.Tech. Polymer Engineering CGPA: 6.83

Central Institute of Petrochemicals Engineering and Technology (CIPET) 2021–2024
Diploma in Plastics Mould Technology (DPMT) 75.26% (First Class)

Technical Skills

CAD & Design	Creo, CATIA, AutoCAD, Fusion 360, Generative Design, Engineering Drawing
Programming	Python (Basic), MATLAB
Polymer Processing	Injection Moulding, Compression Moulding, Extrusion, Blow Moulding, Polymer Compounding
Testing & Characterization	Tensile Testing, Impact Testing, Hardness Testing, Melt Flow Index (MFI) Testing, Material Analysis
Manufacturing	Mould Manufacturing, CNC Machining, Engineering Metrology, Quality Control, Process Optimization
Software	Microsoft Word, Microsoft Excel, Microsoft PowerPoint

Internship Experience

STAM Digital Tooling India Pvt. Ltd. Jan 2024 – Jun 2024
Institutional Trainee (Tool Design & Mould Development) Chennai, Tamil Nadu

- Completed a 6-month industrial training program focused on mould development activities.
- Assisted in mould design, manufacturing processes, and tooling operations.
- Observed CNC machining, mould assembly, dimensional inspection, and quality control procedures.
- Developed practical knowledge of injection mould tooling and manufacturing workflows.
- Strengthened CAD interpretation, engineering drawing, and production planning skills.

Hyundai Engineering Plastics India Pvt. Ltd. Jun 2025 – Jul 2025
Polymer Engineering Intern Chennai, Tamil Nadu

- Studied engineering plastics manufacturing processes and production workflows.
- Observed injection moulding operations and quality inspection procedures.
- Gained exposure to automotive plastics manufacturing and industrial quality standards.
- Developed understanding of process monitoring and manufacturing best practices.

Projects

Injection Mould Design and Development Jan 2024 – Apr 2024

- Designed injection mould components using Creo, CATIA, and AutoCAD.
- Created detailed 3D models and manufacturing drawings.
- Performed dimensional verification and design modifications.
- Strengthened CAD modelling and mould design skills.

Polymer Material Testing and Characterization Aug 2025 – Nov 2025

- Conducted tensile, impact, and hardness testing on polymer materials.
- Utilized MATLAB for data analysis and graphical representation.
- Compared mechanical properties of polymer samples.
- Prepared technical reports and performance evaluation summaries.

Certifications & Professional Development

- Certificate of Participation, India Design Week 2026 – ICT Academy & Autodesk
- Certificate of Participation, Planet X Inter-Collegiate Hackathon – Jerusalem College of Engineering, Department of Artificial Intelligence and Data Science
- Certificate of Appreciation, IMTOF & IPPEX 2026
- Workshop on Composite Materials for Engineering
- Virtual National Conference on "Advances in Polymer Technology and Sustainable Materials" (APTSM-2025)
- International Conference on "Next Gen Mechanical System" (ICNGMS-2026)
- Writing Skills
- Supervised Machine Learning: Regression and Classification **100%**
- Safety in the Utility Industry **86.87%**
- QCad Training
- Python 3.4.3 Training
- Presentation Skills
- MATLAB Onramp
- Material Behavior **97%**
- Learn Fusion for CAD in 90 Minutes
- Introduction to Solving Ordinary Differential Equations
- Introduction to Computers Training
- Industrial Safety Engineering **97.72%**
- Industrial Hygiene and Incident Management **97.50%**
- Generative Design
- Engineering Drawing
- Design Thinking: Insights to Inspiration **98.50%**
- Certificate of Program Completion – Wadhwani Foundation
- Certificate of Content Completion – Wadhwani Foundation

Conferences & Research Presentations

- Presented the paper "Advancing Smart Manufacturing: Recent Machine Learning Approaches for Optimisation and Quality Prediction in Injection Moulding" at APTSM-2025.
- Presented the paper "Development of Polylactic Acid (PLA) Based Components Using Additive Manufacturing for Automobile Applications" at ICNGMS-2026.

Leadership & Industry Exposure

- Volunteer, IMTOF & IPPEX 2026, Chennai Trade Centre.
- Participant, Planet X Inter-Collegiate Hackathon 2026.
- Participated in technical workshops, symposiums, conferences, and industry-oriented events related to Polymer Engineering and Manufacturing Technologies.

Areas of Interest

- Polymer Processing
- Injection Moulding
- Tool Design and Mould Manufacturing
- Polymer Testing and Characterization
- Quality Control
- Automotive Plastics
- Smart Manufacturing
- Additive Manufacturing