MOHAMED IMRAN KHAN

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SKILLS

GD&T | Autodesk Fusion 360 | SOLIDWORKS | CREO | CATIA | ANSYS | SIMULINK | MATLAB | Excel | Windchill PLM | PLC programming
Material Engineering | Machine Learning Aptitude | Literature Review | Python Programming
Basic Deep Learning Knowledge | Composite Materials Understanding
Problem Solving | Decision Making | Teamwork | Communication | Adaptability | English, Tamil

EXPERIENCE

R&D INTERN MECHANICAL
VORTEX ENGINEERING   June 2023 - July 2023, Chennai
· Conducted R&D in ATM Manufacturing using Creo, QA, and GD&T, resulting in a 20% enhancement in ATM component quality.
· Applied GD&T principles to optimize three designs and contribute to efficient part design, achieving a notable 25% efficiency improvement.
· Collaborated on Windchill initiatives, utilizing Windchill PLM for streamlined communication while gaining exposure to comprehensive R&D in mechanical design, QA, and sheet metal.

Student Intern
Pinwheel Robotics   November 2022 - January 2023, BENGALURU
· Completed Machine Learning live projects in collaboration with Pinwheel robotics and Intern360, demonstrating proficiency in practical machine learning applications.
· Proved meritorious capability in developing and implementing machine learning solutions, showcasing keen enthusiasm and a proactive approach to problem-solving during the internship

CERTIFICATIONS

EV Design For Mechanical Engineers
Skill - Lync
Explored Electric Vehicle (EV) and Hybrid Electric Vehicle (HEV) design concepts, enhancing mechanical engineering skills.

Machine Learning - Internship
INTERN - 360
During my machine learning internship, I excelled in collaborative live projects, showcasing practical machine learning proficiency, proactive problem-solving, and collaboration with Pinwheel robotics and Intern360.

PROJECTS

"Zirconium-Doped Carbon Black/PLA Membrane for Optoelectronics & Electrochemistry"
Government College of Engineering, Bargur · March 2023 - August 2023
· Engineered a novel PLA-based membrane doped with zirconium hydroxide and carbon black powder, exhibiting exceptional light absorption across frequencies.
· Achieved a significant band gap of 1.17 eV, resulting in direct PL emission and direct band gap semiconductor behavior.
· Demonstrated promising battery electrode characteristics via cyclic voltammogram analysis, coupled with a low corrosion rate of 0.017894 mm/year.

"Carbon Composite Membrane for Self-Cleaning and Smart Coatings Application"
Government College of Engineering, Bargur · July 2022 - November 2022
· Developed a PLA-based membrane with coconut shell-derived carbon, demonstrating higher resistance and impedance at lower frequencies, signifying enhanced electrical properties.
· Achieved a lower band gap of 1.08 eV, enabling direct photoluminescent (PL) emission and characterizing it as a direct band gap semiconductor.
· It showcased exceptional corrosion resistance with a minimal rate of 0.0019287 mm/year, rendering it a highly durable material for various applications.

EDUCATION

Bachelor of Engineering
Government College of Engineering, Bargur · Krishnagiri · 2024 · 7.96 CGPA

INVOLVEMENT

Student Volunteer
Government College of Engineering, Bargur · Bureau of Indian Standards (BIS) · July 2022 - June 2024
· Contributed to a door-to-door campaign, reaching out to 50+ households to create awareness about ISO standards and promote quality and safety practices.