INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD

Alex E. Mathew

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CAREER OBJECTIVE

Dedicated and detail-oriented mechanical engineering student passionate about designing and optimizing mechanical systems. Seeking a challenging role as a Mechanical Engineer to leverage my design, manufacturing, and robotics knowledge. Committed to contributing to innovative projects and continuous learning to drive efficiency and sustainability in engineering solutions.

EDUCATION

Degree/Certificate	**Institute/Board**	**CGPA / Percentage**	**Year**
B.Tech (Mechanical Engineering)	IIT, Palakkad	8.89 (Current)	2022-Present
Class XII	Kuriakose Elias English Medium School	99%	2022
Class X	ST. LITTLE TERESA' S HIGH SCHOOL, VAZHAKULAM	95%	2020

TECHNICAL SKILLS

- **MATLAB**
- **Python Language**
- **ADAMS Software**

PROJECTS

- **Opening and closing mechanism of a Car Trunk/Boot** **Nov 2024 to Dec 2024**
  Prof. Sovan Lal Das
  Course project
  Comparative study of two trunk lid mechanisms focusing on functionality, durability, and cost. A new height-adjustable locking system was developed for improved user comfort and safety, with supporting force diagrams and stress analysis.

- **Music Recommendation Based on Face Emotion Recognition** **Apr 2023 to May 2023**
  Prof. Albert Sunny
  Course project
  A system was developed to detect user emotions and play corresponding music, enhancing user experience through real-time emotional response. *Link*

- **Optimized hosting platform for image and video** **Jan 2024 to May 2024**
  Dr. Abdul Rasheed P
  OELP
  Creating a platform for storing and sharing images and videos. If the net connection is poor, the video quality will change accordingly to provide an uninterrupted streaming experience.

- **Friction Stay Hinge** **Nov 2024 to Dec 2024**
  Prof. Santhakumar Mohan
  Course project
  The friction stay hinge is a 6 - bar mechanism with a slider - crank. It is a modern version of stoppers with a flexibility of inclining the window at any angle between the limiting positions. The objective of this mini project is to analyze the working of friction stay hinges.

ELECTIVE COURSES

- Probability and Statistics
- Aerospace Propulsion
- Mechanical Vibrations
- Differential equations
- Introduction to Optimization
- Mechanics and Control of Robotic Manipulators
- Soft Computing
- Robot Implementation Methods
- Alternative & Renewable Energy Technologies
- Computer Graphics

TRAINING AND WORKSHOP

- **Python+Django** **Dec 2023**
  Progressive Cybernetics Private Ltd