



Caterpillar India Engineering Solutions Private Limited
CIN No: U74999TN2021FTC141049

July 30, 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Veerendra Harshal, a student of Dual Degree in Mechanical Engineering, Indian Institute of Technology Madras, has successfully completed his project titled "Reduced Ordered Modelling and Machine Learning based Models for Torsional Vibration Analysis" with Caterpillar India Engineering Solutions Pvt. Ltd, Chennai.

He was part of the Caterpillar internship program from May 31, 2021 to July 30, 2021. During this period, he has demonstrated dedication and hard work to meet the quality and commitment of the project.

We wish him all success.

For Caterpillar India Engineering Solutions Private Limited

A handwritten signature in black ink that reads "Jacob Mathew". The signature is fluid and cursive.

Jacob Mathew
Human Resources Manager