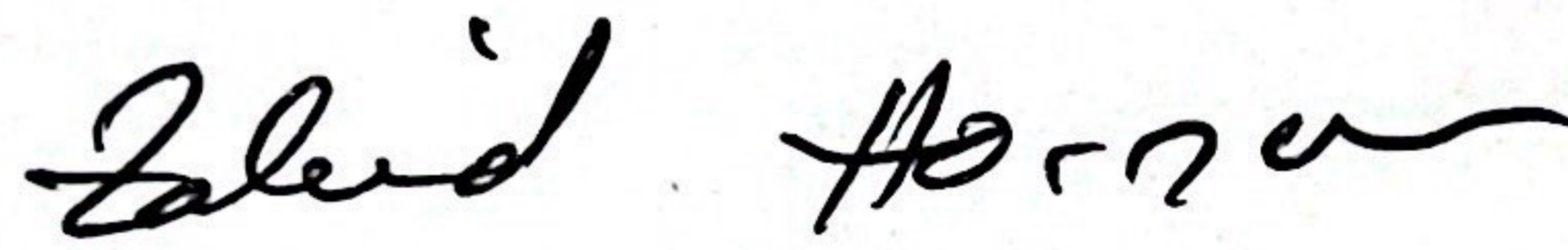

CERTIFICATE OF RESEARCH

The thesis titled **IMPACT ANALYSIS ON CAR BUMPER TO ENHANCE PASSENGER SAFETY**” submitted by **KAZI FORHAN NADIM EZAZ (180011122)**, **MOHAMMAD SAKIB UL ABRAR (180011120)**, **RIDOWAN ISLAM PRANTO (180011112)** has been accepted as satisfactory in partial fulfilment of the requirement for the Degree of Bachelor of Science in Mechanical Engineering on May, 2023.

Supervisor



PROF. DR. MD. ZAHID HOSSAIN

Dean, Faculty of Engineering and Technology (FET)

Islamic University of Technology (IUT)

Head of the Department

PROF. DR. MD. ANAYET ULLAH PATWARY

Department of Mechanical and Chemical Engineering (MCE)

Islamic University of Technology (IUT)

DECLARATION

This is hereby declared that this thesis entitled **IMPACT ANALYSIS ON CAR BUMPER TO ENHANCE PASSENGER SAFETY**” is an authentic report of our study carried out as requirement for the award of degree B.Sc. in (Mechanical Engineering) at Islamic University of Technology, Gazipur, Dhaka, under the supervision of **DR. MD. ZAHID HOSSAIN**, Professor, Department of Mechanical and Production Engineering, IUT during August 2022 to May 2023.

The matter embodied in this thesis has not been submitted in part or full to any other institute for award of any degree.

Signature of the Authors

Fozhan Nadim
05-06-23

Kazi Forhan Nadim Ezaz
Student No: 180011122

Sakib 05-06-2023

Mohammad Sakib Ul Abrar
Student No: 180011120

Ridwan 05.06.23

Ridwan Islam Pranto
Student No: 180011112

Signature of the Supervisor

Zahid Hossain

PROF. DR. MD. ZAHID HOSSAIN
Dean, Faculty of Engineering and Technology (FET)
Islamic University of Technology (IUT)