

# KAISER HAMID

Lubbock, Texas

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## EDUCATION

<b>Texas Tech University (TTU)</b> <i>PhD in Industrial Engineering</i>	<b>Aug 2024 - Present</b> <i>Lubbock, TX</i>
<b>Texas Tech University (TTU)</b> <i>MS in Electrical and Computer Engineering (ECE)</i>	<b>Aug 2024 - Present</b> <i>Lubbock, TX</i>
<b>Bangladesh University of Engineering &amp; Technology (BUET)</b> <i>BSc. in Civil Engineering</i>	<b>Apr 2019 - Jul 2024</b> <i>Dhaka, Bangladesh</i>

## WORK EXPERIENCE

<b>Graduate Research Associate</b> <i>Autonomous Driving, Computer Vision, Human Factors</i> <ul style="list-style-type: none"><li>• <b>Advisor: Dr. Nade Liang</b></li></ul>	<b>Aug 2024 - Current</b> <i>Lubbock, Texas</i>
<b>Research Associate</b> <i>Deep Learning, App Development, Database Management</i> <ul style="list-style-type: none"><li>• <b>Advisor: Dr. Annesha Enam</b></li></ul>	<b>Dec 2022 - Jul 2024</b> <i>Dhaka, Bangladesh</i>

## TECHNICAL SKILLS

**Languages:** Python, C, C++, Dart, R, MATLAB  
**Developer Tools:** VS Code, Android Studio  
**Technologies/Frameworks:** GitHub, ReactJS, NodeJS, Git, Mongo, Flutter  
**Deep Learning Frameworks:** TensorFlow, Keras, PyTorch  
**Libraries:** Scikit-learn, Pandas, Numpy, Scipy, OpenCV, Matplotlib, Seaborn  
**Simulation tool for autonomous driving:** CARLA

## RESEARCH INTERESTS

Autonomous driving, Computer vision, Cyber security, Human factors.

## PUBLICATIONS

- **Hamid, Kaiser, Liang, Nade, PhD.** "How Good is Good? Evaluating Driving Maneuver Quality Using AI Agents." **Proceedings of the 69th HFES International Annual Meeting (ASPIRE 2025).**
- **Hamid, Kaiser, Noor, Md Sayem, Enam, Annesha, PhD.** "Assessing the Potential of Google Location History (GLH) Data for Travel Behavior Research in the Context of Developing Country." **Proceedings of the 27th IEEE International Conference on Intelligent Transportation Systems (IEEE ITSC 2024).**

## GRANTS AND AWARDS

- **Research Grant, CASR (JULY, 2024):** Awarded a prestigious \$2500 research grant for work on Google Location History.
- **Graduate College Travel Award (SEPTEMBER, 2024):** Received \$950 to attend the IEEE ITSC Conference (2024-25).

## PROJECTS

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- **Pedestrian Detection using Deep Learning:** Developed a pedestrian detection system utilizing deep learning models.  
**Technologies:** Python, Google Colab [Watch Demo]
- **Traffic Mode Detection & Tracking for Dhaka, Bangladesh:** Built a traffic mode detection and tracking system for urban mobility analysis.  
**Technologies:** Python, Google Colab [Watch Demo]
- **Gulshan-1 Intersection Simulation for CAPSTONE Project:** Simulated traffic flows at a major intersection to analyze and optimize performance.  
**Technologies:** VISSIM Software [Watch Demo]
- **Traffic Mode Detection for Dhaka, Bangladesh:** Created a detection system to classify and analyze traffic modes in Dhaka.  
**Technologies:** Python, Google Colab [Watch Demo]
- **Trip Tracker App for Collecting User Data:** Designed and implemented a mobile app to collect and analyze user trip data.  
**Technologies:** Flutter, MongoDB [Watch Demo]
- **CARLA HITL (Human In The LOOP):** Designed framework to work with steering, pedal and gear box with data logging  
**Technologies:** Unreal Engine [Watch Demo]
- **Raspberry Pi 4 Data Logger with CAN Bus:** Developed a compact system using Raspberry Pi 4 to interface with vehicle CAN bus for real-time data logging and sensor integration  
**Technologies:** Raspberry Pi 4, CAN bus, Python [Watch Demo]

## SELECTED COURSES

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- Structured Programming and OOP (C, C++)
- Pattern Recognition
- Machine Learning
- Advanced Cognitive Systems
- Design of Experiment