# Kaiser Hamid

Lubbock, Texas
+1 806 559 8496 mdmunna@ttu.edu kaiser-buet kaiser-75
**Website:** https://kaiser-75.github.io/

## EDUCATION

**Texas Tech University (TTU)** **Aug 2024 - Present**
*PhD in Industrial Engineering* *Lubbock, TX*

**Texas Tech University (TTU)** **Aug 2024 - Present**
*MS in Electrical and Computer Engineering (ECE)* *Lubbock, TX*

**Bangladesh University of Engineering & Technology (BUET)** **Apr 2019 - Jul 2024**
*BSc. in Civil Engineering* *Dhaka, Bangladesh*

## WORK EXPERIENCE

**Graduate Research Associate** **Aug 2024 - Current**
*Autonomous Driving, Computer Vision, Human Factors* *Lubbock, Texas*

- **Advisor: Dr. Nade Liang**

**Research Associate** **Dec 2022 - Jul 2024**
*Deep Learning, App Development, Database Management* *Dhaka, Bangladesh*

- **Advisor: Dr. Annesha Enam**

## Technical Skills

- **Programming:** Python, C, C++, MATLAB, R, Dart
- **Deep Learning:** PyTorch, TensorFlow, Keras; scikit-learn
- **Computer Vision:** OpenCV, YOLO, detection & tracking
- **Simulation:** CARLA, SCANeR AV, Unreal Engine, VISSIM
- **Embedded Systems:** Raspberry Pi, CAN Bus
- **Tools:** Git/GitHub, VS Code, Android Studio, MongoDB, Flutter

## Research Interests

Autonomous driving, Computer vision, Human factors.

## Research & Projects

- **TransAD: End-to-End Autonomous Driving** – Developed transformer-based trajectory prediction model using multi-camera inputs, past motion, and intent signals for 5s horizon.
- **CARLA Human-in-the-Loop Simulation** – Built HITL setup integrating steering, pedals, and CAN bus to test takeover scenarios with Level 1 and Level 3 drivers.
- **Raspberry Pi 4 Data Logger with CAN Bus** – Designed embedded system for vehicle CAN bus data logging and real-time sensor integration.
- **Pedestrian Detection in Heterogeneous Traffic** – Trained DL models (using PyTorch, OpenCV) for real-time pedestrian & traffic detection.
- **Trip Tracker App** – Created mobile app to collect user trip data for travel behavior research (Flutter, MongoDB).

## Publications (Selected)

- **Hamid, K.**, Akbar, K. A., Liang, N. *"FSDAM: Few-Shot Driving Attention Modeling via Vision-Language In-Context Learning."* [Under review]
- **Hamid, K.**, Noor, M. S., Enam, A. *"Assessing the Potential of Google Location History Data for Travel Behavior Research."* Proceedings of the 27th IEEE ITSC (2024).