

KAISER HAMID

Lubbock, Texas

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EDUCATION

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

WORK EXPERIENCE

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

RESEARCH INTERESTS

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

Selected Projects

- **TransAD: End-to-End Autonomous Driving** – Developed a novel transformer-based trajectory prediction framework for autonomous vehicles using multi-modal inputs (cameras, intent, trajectory).
- **CARLA Human-in-the-Loop Simulation** – Built HITL simulation setup integrating steering wheel, pedals, and CAN bus for human participant with level 1 and level 3.
- **Raspberry Pi 4 Data Logger with CAN Bus** – Created a compact embedded system for vehicle data collection and sensor fusion.
- **Pedestrian heterogeneous traffic detection, tracking with Deep Learning** – Trained computer vision models for real-time pedestrian traffic detection using PyTorch and OpenCV.

Publications (Selected)

- **Hamid, K.**, Liang, N. “A New Evaluation Metric for Takeover Maneuver Quality: Comparing Human Drivers with Autonomous Driving Agents.” Proceedings of the 69th HFES Annual Meeting (ASPIRE 2025).
- **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).