



Date: September 30th, 2025

To Whom It May Concern,

Subject: Internship Project Acceptance Letter

We are pleased to confirm that **Hyundai Kefico** has accepted **Aditya Rajesh**, a student of **Atria Institute of Technology** to undertake an internship with us for the period **July 1st, 2025 to September 19th, 2025**.

The student was engaged in the project titled: **AutoInspectAI: Deep Learning-Based Visual Inspection System for Automotive Defect Detection**.

This project was defined in consultation with FPT Software as part of the **FPT Global Internship Program**. The scope of the internship includes, but is not limited to:

- **Build an AI-powered visual inspection tool** tailored for automotive parts and bodywork, with main objectives as below:
 - Detect surface defects (scratches, dents, paint chips, cracks) in car body parts using images or video frames.
 - Provide annotated outputs showing defect location and severity score.
 - Support class-wise categorization (e.g., "Minor scratch", "Major dent", "Paint peel").
 - Allow manual feedback loop from quality control operators to improve the model over time.
- **Project deliverables:**
 - **Defect Detection Model:** Trained model (CNN or YOLOv8) that detects and classifies visual defects
 - **Annotated Dataset:** Curated and labeled image set of defective/non-defective parts
 - **Inspection Dashboard:** Simple UI to upload images/videos and view detected defects
 - **Feedback Module:** Operator override/feedback for incorrectly detected or missed defects
 - **Defect Reports:** Exportable reports with defect types, frequency, severity
 - **Final Documentation:** Includes model training process, evaluation metrics, and future improvement plan

The internship was conducted under the supervision of our team and in accordance with our company's policies and professional standards.

Should you require any further information, please contact the FPT Global Internship Program representative, who has been coordinating this engagement and will be happy to assist.

Sincerely,

Moon Su Whan

Branch Director

HYUNDAI KEFICO VIETNAM CO., LTD.

HANOI BRANCH SOFTWARE DEVELOPMENT CENTER

A handwritten signature in blue ink, consisting of several overlapping loops and lines, positioned below the typed name and title.