

S M NADIM UDDIN

M.Sc. | Computer Vision Researcher

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CAREER OBJECTIVE

As a computer vision researcher, my work spans traditional and deep learning methods for advanced 2D/3D image processing, generative modeling, and multi-sensor data integration. I focus on developing efficient, innovative algorithms while systematically questioning established assumptions to identify overlooked possibilities and unconventional solutions. My approach combines rigorous theoretical reasoning with experimental validation, and I have demonstrated leadership in collaborative, multidisciplinary research. I seek to contribute to initiatives that expand the frontiers of computer vision through both foundational advances and impactful real-world applications.

PROFESSIONAL EXPERIENCE

Senior AI/ML Researcher

R&D Department, AI Lab, Deep In Sight

Nov 2024 — Present

Seoul, Rep. of Korea.

- Focus Area: driver monitoring system (DMS), in-cabin algorithms, object detection, semantic and instance segmentation, mono-depth estimation, model compression, and pipeline integration.

AI Researcher

Automotive Perception Group, AI Lab, DeltaX.ai

Oct 2022 — Nov 2024

Seoul, Rep. of Korea.

- Roles held: AI Researcher, Project Lead, Group Lead.
- Focus Area: driver monitoring system (DMS), occupancy monitoring system (OMS), depth estimation, body keypoints, 3D reconstruction, sensor fusion (RGB, IR, LiDAR, IMU, RADAR), object detection, semantic and instance segmentation, path planning, trajectory estimation, model compression, and pipeline integration.

Vision Researcher

Computer Vision and Image Processing (CVIP) Lab

Mar 2019 — Sep 2022

Gachon University, Rep. of Korea.

- Focus Area: depth estimation, 3D reconstruction, and generative Vision modeling (GAN).

Analyst, Business Development

Apex DMIT Ltd. (former 'Kazi IT Center')

Jul 2018 — Jan 2019

Dhaka, Bangladesh.

- Focus Area: Analyzing, managing overseas assets, and developing businesses.

Teaching Assistant

Dept. of EEE, University of Liberal Arts,

Feb 2018 – Jun 2018

Dhaka, Bangladesh.

- Focus Area: Lectures on course-specific concepts, hands-on training on circuits and devices, and grading.

INDUSTRIAL PROJECTS

PROJECTS

- **Monocular Depth Estimation, In-cabin Monitoring Unit**, SL/Mobase/Mobis & Deep In Sight, 2024-2026, Rep. of Korea.
- **3D Body Keypoint Estimation, In-cabin Monitoring Unit**, SL/Mobase & Deep In Sight, 2026, Rep. of Korea.
- **Child Presence Estimation, In-cabin Monitoring Unit**, SL/Mobase & Deep In Sight, 2025, Rep. of Korea.
- **Seat Pose Estimation, In-cabin Monitoring Unit**, SL/Mobase & Deep In Sight, 2025, Rep. of Korea.
- **Gaze Estimation, In-cabin Monitoring Unit**, SL/Mobase & Deep In Sight, 2024, Rep. of Korea.
- **Pedestrian Detection, Distance Estimation and Predictive Trajectory Estimation, Level 4 PoC, ADAS System**, KADIF & DeltaX, 2023-2027, Rep. of Korea.
- **In-cabin Monitoring System**, 42dot & DeltaX, Apr. 2024-Jun. 2024, Rep. of Korea.
- **Pothole, Crack and Fallen Object Detection, ADAS System**, 42dot & DeltaX, May 2024-Jun. 2024, Rep. of Korea.
- **Real-time Eye Distance Estimation from 3D Light Field Display**, Hyundai Mopic & DeltaX, Jul. 2023-Oct. 2023, Rep. of Korea.
- **Off-road ADAS**, KIA Customer Experience Team & DeltaX, Sep.2023-Dec.2023, Rep. of Korea.
- **Workers' Detection, Distance Estimation, Localization and Tracking using Long-Wave Infrared Camera**, Korea Railway Research Institute & DeltaX, Sep.2022- Mar.2023, Rep. of Korea.
- **Development of Automatic Modulation Classification Method using Deep Learning-based Techniques**, LIG Nex1 & CVIP Lab, 2022-2023, Rep. of Korea.
- **Development of Deep Stereo Matching Algorithm and Motion Deblurring Algorithm using Stereo Event Camera**, SK hynix & CVIP Lab, 2021-2022, Rep. of Korea.
- **Implementation of High-speed Detection Engine Based on Machine Learning for Real-time Pupil Tracking of Holographic Display**, ETRI & CVIP Lab, 2019-2020, Rep. of Korea.

PROOF-OF-CONCEPTS (PoC)

- **Real-time OCR, Monocular Depth Estimation and Obstacle Warning using DashCam**, Hyundai AutoEver & DeltaX, 2023, Rep. of Korea.
- **Smart Navigation for Level 3 ADAS**, Hyundai Mobis & DeltaX, 2023, Rep. of Korea.
- **Pedestrian Detection for ADAS System in Lighting Invariant Environment using Monochrome Camera**, HL Klemove & DeltaX, 2023, Rep. of Korea.
- **UltraFast Monocular Depth Model for Edge Devices**, Deltax, 2023, Rep. of Korea.
- **Real-time 3D PointCloud Segmentation**, DeltaX, 2023, Rep. of Korea.
- **360° Surround View Generation for Vehicles**, DeltaX, 2023, Rep. of Korea.
- **Intelligent Traffic Management System Using CR-VANET**, University of Liberal Arts, 2016-2017, Bangladesh.

SKILLS

Languages	Python, C++ (beginner-to-intermediate).
Tools/Libraries	NumPy, SciPy, OpenCV, Scikit-learn, Matplotlib/Seaborn, Pandas, Scikit-Learn, Open3D.
Frameworks	PyTorch, TensorFlow, Keras, ONNX, TFLite, ROS (beginner-to-intermediate).
Versioning	Git, Docker.
Management Tools	Jira, Confluence, Azure DevOps, Notion.

EDUCATION

Master of Engineering **Feb 2019 — Jan 2021**

THESIS – Deep Learning-based Image Inpainting for Irregular Masks using Attention.

4.43/4.50, Dept. of IT Convergence Engineering,
Gachon University, Republic of Korea.

Bachelor of Engineering

Sep 2013 – Dec 2017

THESIS – Instantaneous Estimation of Shot Importance for Multimedia Summarization Using Two-stream CNN.

3.83/4.00, Dept. of Electronics and Telecommunication Engineering,
University of Liberal Arts, Bangladesh.

PUBLICATION

JOURNALS

1. Howoon Yoon, **S. M. Nadim Uddin** and Yong Ju Jung, "Multi-scale Attention-Guided Non-local Network for HDR Image Reconstruction", Sensors, 2022 (**Impact factor: 3.4, Q1**).
2. **S. M. Nadim Uddin**, Soikat Hasan Ahmed, and Yong Ju Jung, "Unsupervised Deep Event Stereo for Depth Estimation", IEEE Transactions on Circuits and Systems for Video Technology, 2022, (**Impact factor: 8.3, Q1**).
3. **S. M. Nadim Uddin** and Yong Ju Jung, "SIFNet: Free-form Image Inpainting using Color Split-Inpaint-Fuse Approach", Computer Vision and Image Understanding, 2022 (**Impact factor: 4.3, Q1**).
4. **S. M. Nadim Uddin** and Yong Ju Jung, "Global and Local Attention-Based Free Form Image Inpainting", Sensors, 2020 (**Impact factor: 3.4, Q1**).

CONFERENCES

1. Chao Wang, Francesco Banterle, ..., **U. S. M. Nadim**, ..., "AIM 2025 challenge on Inverse Tone Mapping Report: Methods and Results", International Conference on Computer Vision, ICCV 2025 (**H5 index: 256**).
2. Zheng Chen, Zongwei Wu, ..., **U. S. M. Nadim**, ..., "Ntire 2024 challenge on image super-resolution (x4): Methods and results", The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024 (**H5 index: 440**).
3. Jaime Spencer, C Stella Qian, ... , **U. S. M. Nadim**, ..., "2nd Monocular Depth Estimation Challenge (MDEC)", The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023 (**H5 index: 440**).
4. Evangelos Ntavelis, Andr es Romero, ..., **U. S. M. Nadim**, ..., "AIM 2022 Challenge on Reversed ISP", Advanced Image Manipulation Workshop, European Conference on Computer Vision (ECCV), 2022 (**H5 index: 206**).
5. S. H. Ahmed, H. W. Jang, **U.S.M. Nadim**, and Y. J. Jung, "Deep Event Stereo Leveraged by Event-to-Image Translation", AAAI Conference on Artificial Intelligence (AAAI-21), Feb. 2021 (**H5 index: 220**).
6. E. Ntravelis, ..., **U. S. M. Nadim**, H. W. Jang, S. H. Ahmed, J. Yoon, Y. J. Jung, et al., "AIM 2020 Challenge on Image Extreme Inpainting", Advanced Image Manipulation Workshop, European Conference on Computer Vision (ECCV), Aug. 2020 (**H5 index: 206**).
7. **S. M. Nadim Uddin** and Yong Ju Jung, "Mask Pruning-Based Global Attention for Image Inpainting", International Conference on Next Generation Computing (ICNGC), Dec. 2019 (**Best Paper Award**).
8. **S. M. Nadim Uddin**, Nafees Mansoor, Musfiqur Rahman, Nabeel Mohammed, Sazzad Hossain, "A Framework for Event Anomaly Detection in Cognitive Radio Based Smart Community", International Workshop on Computational Intelligence (IWCI), IEEE, Jul. 2016.
9. **S. M. Nadim Uddin**, Nafees Mansoor, Sazzad Hossain, "Cognitive Radio Enabled VANET for Multi-agent Based Intelligent Traffic Management System", International Conference on Advanced Information and Communication Technology (ICAICT), Sep. 2016.

AWARDS

- 5th/67 teams, AIM 2025 challenge on Inverse Tone Mapping, ICCV **2025**
- 11th/50 teams, Ntire 2024 challenge on image super-resolution ($\times 4$), CVPR. **2024**
- 7th/101 teams, 2nd Monocular Depth Estimation Challenge, CVPR. **2023**
- 11th/157 teams, AIM Reversed ISP Challenge, ECCV. **2022**
- 8th/88 teams, AIM Extreme Image Inpainting Challenge, ECCV. **2020**
- Best Paper Award, Poster Section, ICNGC, Thailand. **2019**
- Excellent Achievement, Work Order Analysis Training, Kazi IT Center, Dhaka, Bangladesh. **2018**
- Honorable Mention, Best Paper (Oral Section), ICAICT, Chittagong, Bangladesh. **2016**
- Dean's Honor's List (Undergraduate), University of Liberal Arts, Bangladesh. **2015-2016**