Mahmoud Alhihi

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EDUCATION

University of Minnesota, College of Science and Engineering — *Minneapolis, MN*
Bachelor of Science, Computer Science — Graduation Date: May 2026
GPA:3.9

Century College — *White Bear Lake, MN*
Associate of Science, Computer Science — August 2022 –August 2024

SKILLS

Technical Skills: Python, C++, OpenCV, Tensorflow, Object Detection, Image Segmentation, YOLO, NumPy

Language: Fluent in English, Fluent in Arabic

WORK EXPERIENCE

Century College — *White Bear Lake, MN*
Tech assistant for HYflex classes — Jan 2023 – May 2024

- Provided technical support for hybrid (HyFlex) learning environments, ensuring 100% uptime for online and in-person students.
- Assisted faculty and students with Zoom, Microsoft Teams, and Canvas LMS, streamlining hybrid learning.

Century College — *White Bear Lake, MN*
Peer mentor for first year students — Aug 2023 – May 2024

- Mentored 20+ first-year students, guiding them on course selection, study strategies, and college resources.
- Hosted campus tours and networking sessions, helping students integrate into the community.

University of Minnesota - Twin Cities — *Minneapolis, MN*
Teaching Assistant (CSCI 3923: Ethics in Computing) — Sep 2025 – Present

- Assisting professor with grading, discussion sections
- Helping students understand topics such as AI fairness, data privacy using real world scenarios.

PROJECT EXPERIENCE

Autonomous Drone Delivery Simulation, *CSCI 3081* — Feb 2025 – May 2025

- Implemented an interactive drone delivery simulation in C++, including real-time navigation and dynamic entity interactions.
- Developed a “Sky Reaper” extension to detect and pursue drones, attempting to intercept and decrypt encrypted package contents.

Stationary Object Detection (YOLO) — Jul 2025 – Aug 2025

- Collected and annotated a dataset of 226 images for various stationary objects.
- Trained YOLOv8 models on custom data using Google Colab and Ultralytics, achieving high-accuracy detection.

Skin Cancer Segmentation Using Deep Learning — Aug 2025 – Ongoing

- Preprocessed medical imaging datasets and applied data augmentation for skin lesion segmentation tasks.
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