

# Dhiyaa Al Jorf

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## EDUCATION

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**New York University Abu Dhabi (NYUAD), Abu Dhabi, UAE** August 2021 - May 2025  
*Bachelor of Science in Computer Engineering* *Current GPA: 4.0/4.0*

- Studies included full year at NYU Tandon School of Engineering & short-term stay at NYU Paris

## REHABILITATION ENGINEERING

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**Capstone Project** August 2024 – Present  
 Reliable and Intuitive Multi-modal Prosthetic Closed-Loop Control System within VR simulation environment.

**Center for Artificial Intelligence and Robotics (CAIR) | Research Assistant** February 2024 - Present  
*Current Project:* Uncertainty Quantification for Breast Cancer Diagnosis & Prognosis

*Completed Project:* Single-Grid Hand Gesture Recognition Leveraging Agonistic-Antagonistic Coactivation

- Designed & trained sEMG-based hand gesture classification models with 95% accuracy.
- Utilized XAI visualization techniques to identify important channels contributing to model predictions.
- Conducted ablation studies to evaluate the impact of dropping specific channels on model performance.
- Co-first authored paper currently in process to be reviewed for IEEE RA-L journal.

**Applied Interactive Multimedia (AIM) Lab | Research Assistant** February 2022 – July 2022

- Designed & Implemented a full-stack application for custom rehabilitative system
- Developed & tested a set of occupational therapy games aimed at post-stroke patients according to established procedures with advice from physicians at Cleveland Clinic Abu Dhabi
- Modified the games to assist children in acquiring handwriting skills with advice from education professionals at Cranleigh Schools Abu Dhabi

## INTERDISCIPLINARY CHALLENGES

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**Team Triton | Computer Engineering Team** September 2024 - Present  
 Responsible for realistic & simulated synthetic data generation for Computer-Vision-based robot controller

**eBrain Lab LLM Fine-Tuning Competition | First Place** September 2024  
 LLM Fine-tuning competition scored on model size and performance on a medical MCQA task.

**IEEEExtreme 17.0 Competition | Third Place in the UAE** October 2023  
 Top 10% in the Middle East

**NYUAD.SPACE | Research Assistant** August 2022 - June 2023

*Hold-Down Release Mechanism (HDRM) - JUCI:*

- Designed, developed, and tested reusable HDRM for the Jet Propulsion Lab (JPL) as part of the JPL University Crowdsourcing Initiative (JUCI)
- Presented HDRM design at JPL headquarters in Los Angeles, California

*Haloship:*

- Successfully launched Project Haloship in the Spaceport America Cup 2023
- Designed, developed, and simulated internal skeleton of Haloship
- Designed, developed, and simulated reusable recovery subsystem for project Haloship.
- Won the Dr. Gil Moore Aware for Technical Innovation for the design of the recovery subsystem

**IEEEExtreme 16.0 Competition | Fourth Place in the UAE** October 2022

## COMMUNITY INVOLVEMENT

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**Afghanistan Female Student Outreach (AFSO)** | *Teacher Assistant* September 2024 – Present

- Taught weekly recitation sessions for differential calculus class.
- Hosted weekly office hours to assist students.
- Helped manage the Google Classroom environment & relay information to students.

**Habitat For Humanity, Bayt Eidis, Jordan** | *Volunteer* March 2023

- Volunteered in Jordan as part of NYUAD's Engineers for Social Impact (EfSI) program to assist in constructing houses and community spaces for the underprivileged families of Bayt Eidis.
- Conducted an ethnography report of the Bayt Eidis community

**Mangrove Plantation Initiative** | *Volunteer* November 2022

More than 100 NYUAD community members planted 5,000 mangrove trees in under an hour as part of the University's commitment to sustainability and environmental conservation

## SPORTS & PHYSICAL ACTIVITY

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**Indoor Rock Climbing** October 2021 – Present

Twice a week

**Ice Skating** December 2023 – Present

Twice a week in New York winter. Every other week in Abu Dhabi

**Badminton** August 2024 – Present

Twice a week

**NYUAD Athletics** | *Climbing Wall Supervisor Assistant* August 2022 - June 2023

Assisted in supervising sessions, organizing events, and equipment maintenance

**Dabke** September 2021 – November 2022

Cultural Dance team under a Cultural Student Interest Group (SIG) at NYUAD. We had multiple performances in different SIG events.

## ARTS

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**DoodlyFox** | *Art Website*

**Skills:** Digital Illustration, Still-Life Drawing, Clay Sculpting, Sewing & Embroidery

**The NYUAD Gazelle Newsletter** | *Illustrator* September 2022 – December 2022

## CULINARY

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**FoodieFrog** | *Recipe Website*

A fun corner of my website where I share my favorite recipes.

**Community Lunch & Iftars** August 2023 – June 2024

During my study away in New York, I organized weekly group lunches (and iftars during Ramadan) for NYUAD study away community members.