

FATIMA NOORELDIN

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Professional Summary

Diligent Computer Engineer with a passion for developing programs that automate and increase efficiency. Well-versed in the applications of Computer Vision, Machine Learning, Robotics, and Virtual Reality.

Experience

Mental LTD

March 2022 - June 2022

Software Developer

- Automated the process of writing technical design documents for VR training videos by using Speech Recognition and OCR.
- Created functional game interactions in VR to simulate training scenarios using Unreal Engine.
- Developed VR experiences for the VIVE Pro headset.
- Worked in a virtual event in EXPO 2020 where I managed the streaming of the event worldwide on the ENGAGE platform.
- Provided support in EXPO 2020 for VR participants and presented customized VR environments.

Mental LTD

January 2022 - March 2022

Internship

- Scanned 3D environments and collected point cloud data using an Intel Realsense D455 Camera.
- Processed 3D scans and developed a filtering sequence using Python to enhance the color, fill gaps, and denoise the scans.
- Created a rolling ball game using the Blueprint scripting system in Unreal Engine

Education

Abu Dhabi University, UAE

February 2022

Bachelor of Science in Computer Engineering

Coursework: Self-Driving Cars, Computer Vision and Machine Learning, Embedded Linux System Design

Projects

Posture Classification Using Computer Vision

Developed an object detection system that can detect and classify the posture as well as alert the user.

Parking Permit Inspector Robot

Created a robotic car that can use optical character recognition to check car plates and permits.

ECG Heart Rate/Respiration Detection

Designed a graphical user interface where an ECG can be uploaded and information such as respiration rate and heart rate can be calculated

Technical Skills

MATLAB, Python, Unreal Engine, Embedded Systems, Robotics, NVIDIA GPU, Linux, Bash, HTML, CSS, Java, Soldering

Awards

Won 3rd place in the Abu Dhabi University 8th Undergraduate Research Competition 2021 in the Start-Up 'Launch-Pad' Incubator Program category. The winning project is a posture classification computer vision-based system.