

Mengyan (Mandy) Liu

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Engineering

James Scholars Program

Exp. May 2023

GPA: 3.92/4.00

RESEARCH & WORK EXPERIENCES

Goldman Sachs Co.,

Engineering Summer Analyst

Salt Lake City, UT

June. 2022-current

- Responsible to create a website from scratch for the team to use, which should be easy to navigate and check progress based on another website the team created in the past
- Combine a backend design in Java utilizing REST API to create several endpoints with a frontend project in React to visualize customizable data analytic reports

Electrical & Computer Engineering Department (ECE)

ECE 210 Lab Assistant

Urbana-Champaign, IL

Feb. 2021 – current

- Debug students' circuit with them and explain difficult concepts about analog signal processing, such as modulation and envelope detector
- Assist with other assistants, grade students' report every week and provide feedback to help students to achieve their understanding of the course

Discovery Partner Institute

Research intern in VR for depressed lung cancer patients

Urbana-Champaign, IL

Aug. 2021 – Dec. 2021

- Made storyboards for every 8 skills that are used to improve emotion, and design background settings in Unity.
- Used python to write a script with JSON file in order to organize the group project in folder structures, the python script can create folder structures and files inside specific path

Projects

FPGA with NIOSII Project on Game Design

Individual Project

Urbana-Champaign, IL

Apr. 2021 – May. 2021

- Used four weeks to develop a horizontal shooter game with moving background, which utilizes keyboard to control and monitor to be seen
- SystemVerilog is used to transfer VGA colors to the monitor and communicate with FPGA when language C is used to control every object's movement in the game

HONORS

Dean's List: awarded to top 20% in College of Engineering

Fall 2020

Oakley Scholarship in Electrical and Computer Engineering

Aug. 2020 – May 2021

SKILLS

Advanced: Chinese (Mandarin, Cantonese), Java, C++, DE-10 Lite board, python, SystemVerilog,
Proficient: Scopy, Arduino, C, Assembly code (LC-3), x86, Verilog, Eclipse, Vivado, Spyder, GitLab,
oscilloscope, MATLAB, SolidWorks, React, Springboot, Node.js