Bao-Hsuan Huang

M.S. in Computer Science, National Tsing Hua University

thebhhuang@gmail.com

(+886)972-387-696

https://baohsuanhuang.github.io/ in www.linkedin.com/in/baohsuan-huang



Hsinchu City, Taiwan Sept. 2022 - Jun. 2024

Sept. 2018 - Jun. 2022

Education

National Tsing Hua University

M.S. in Computer Science

Hsinchu City, Taiwan

National Tsing Hua University

B.S. in Computer Science

Keio University Tokyo, Japan

Exchange Student in Dept. of Science and Technology Oct. 2023 – Feb. 2024

Skills

Programming (Proficient) C/C++, Python (Familiar) HTML, CSS, JavaScript **Languages** Mandarin, English

Master's Thesis Research

Non-invasive Classification of Alzheimer's Disease using **Gait and Facial Features**

Sept. 2022- now

Proposed a framework for classifying Alzheimer's Disease using gait and facial features extracted from the video data.

- ☐ Four Subtasks: Walking, Sit down and Stand up, Turning, Facial
- □ Data processing, Model training and evaluating, Model explanation, Subtask analysis

School Projects_____

Real-time Video Conference System with Machine Learning Methods

Feb. 2021 - Feb. 2022

Present a video conference web system with multiple functions between two users.

- ☐ Conference image Instance segmentation, Super resolution
- ☐ Conference sound Speech to Text, Speech Denoising
- ☐ Backend data processing Node.js, Http packet request, WebRTC
- ☐ Front-end web design

Online Chatroom with Firebase	March 2020
Present a web-based chatting system with Firebase, Responsive Web Design functionalities. Demo video can be found here . User Sign in/Sign up/Log out system Allow to send both text and image Private chatroom (one-on-one) and public(group) chatting space Web animation design Utilized: C++, TypeScript	, and key
Game Design with Cocos Creator and Firebase	June 2020
Present a strategy game with Cocos Creator, linked with Firebase, and key g functionalities. Demo video can be found here . User Sign in/Sign up/Log out system Strategy for earning in-game currency and combating enemies Interact with players through mouse input Dynamic day and night scenes for an immersive experience Utilized: C++, TypeScript	ame
Toy Box: Hardware Design with FPGA	January 2020
Designed and handmade an interactive toy box which controlled with FPGA b	oard.

□ Control stepper motors' rotational speed and direction of rotation
 □ Toggle the switch to start the game by sending a signal to the board

☐ Utilized: Verilog