Yuming Chen

206.902.8967 | yuminc@uw.edu | www.linkedin.com/in/yuming-chen-479766256

Summary of Qualifications

· Passionate about electrical and computer engineering

· Four years of lab experiences during both middle school and high school

· Fluent Chinese, English and German

· Strong leadership and communication skills

Education

UNIVERSITY OF WASHINGTON | SEATTLE, WA   EXPECTED GRADUATION: JUNE 2026

· Student in major of electrical and computer engineering

· Scholarship (DEAN'S LIST) for five quarters

· Major course including Digital Circuit & System, Signal System & Data structure, Signal processing and Embedded Systems & Controls

· Gained strong background of Verilog, Arduino and Java coding skills

XIAMEN FOREIGN LANGUAGE SCHOOL | XIAMEN, CHINA   SEPTEMBER 2016 - JUNE 2022

· GPA: 4.0

· Six years of German learning with certificate of B2 level in CEFR scale

Experience

RESEARCHER | INSTITUTE OF URBAN ENVIRONMENT, CHINESE ACADEMY OF SCIENCES | XIAMEN, CHINA   SEPTEMBER 2017 - NOVEMBER 2019

· Researched on rice-microbial fuel cells

· Published a paper about *Effects of Different Fertilizers on Electricity Production of Rice - microbial Fuel Cells*[1] *(in Chinese)*

RESEARCHER |XIAMEN UNIVERSITY | XIAMEN, CHINA   SEPTEMBER 2020 - JUNE 2022

· Researched on urban wastewater

· Published a paper about Effect of the ultraviolet/chlorine process on microbial community structure, typical pathogens, and antibiotic resistance genes in reclaimed water[2]

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INTERNSHIP | INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES | BEIJING, CHINA
JULY 2024 – SEPTEMBER 2024

· Researched on mechanism of time-dependent dielectric breakdown

· Gained experiences about VLSI and semiconductor manufacturing technology

INTERNSHIP | INSTITUTE OF MICROSYSTEM AND INFORMATION TECHNOLOGY, CHINESE ACADEMY OF SCIENCES | SHANGHAI, CHINA   **DECEMBER 2024 – NOW**

· Researched on Stereo Matching

· Aimed to use LLM technique to optimize the speed and accuracy in Stereo Matching

INTERNSHIP| NATIONAL TAIWAN UNIVERSITY | ONLINE   **AUGUST 2024 – DECEMBER 2024**

· Digital twin initiative project to achieve predicting wastewater treatment efficiency

· Using online monitoring data in a wastewater treatment plant and machine learning tool

· The first draft of the paper is already finished

PROJECT | UNIVERSITY OF WASHINGTON | SEATTLE, UNITED STATES   **OCTOBER 2024 – DECEMBER 2024**

· Built line following robot using nonvisual technique

Double bass player | XIAMEN FOREIGN LANGUAGE SCHOOL | XIAMEN, CHINA   **SEPTEMBER 2016 – JUNE 2022**

· Performed in over 50 concerts

· Served as principal double bass for over three years

[1]   陈煜铭, 王寅寒, 黄青, and 于昌平, "不同肥料条件对水稻-微生物燃料电池产电性能的影响," *环境科学导刊,* vol. 5, 2019.

[2]   C. Ye *et al.*, "Effect of the ultraviolet/chlorine process on microbial community structure, typical pathogens, and antibiotic resistance genes in reclaimed water," *Frontiers of Environmental Science & Engineering,* vol. 16, no. 8, pp. 1-14, 2022.