Yu-Ming (Idris) Huang

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OBJECTIVE

DILIGENT GRADUATE RESEARCHER with 4+ years of experience managing and leading a Biosensor laboratory. Participated in 6 international conferences and published 3 peer-reviewed journal papers. Conducted a clinical trial with a self-developed urea biosensor. Seeking to enter an analyst position or sales role in a healthcare or biomedical firm to gain hands-on experience in healthcare management.

EDUCATION

M.S. IN BUSINESS ANALYTICS, UNIVERSITY OF CALIFORNIA SAN DIEGO, USA	PRESENT
M.S. IN ELECTRICAL ENGINEERING, National Taipei University, Taiwan (GPA: 4/4, DISSERTATION SCORE: 94.5/100)	JUN, 2021
B.S. IN ELECTRICAL ENGINEERING, National Taipei University, Taiwan (GPA: 3.16/4)	JUN, 2019

EXPERIENCE

RESEARCH ASSISTANT, Bioelectronics & Biosensors Lab, National Taipei University — SEP, 2017 - AUG, 2021

- Managed and performed lab tasks such as experiments, requisitions, salary, relocation, inspection, etc.
- Trained juniors and carried out a clinical trial for urea detection in human blood with a self-developed biosensor.
- Participated in four projects funded by the university and the Ministry of Science and Technology, Taiwan.

CONFERENCE PRESENTATIONS

30th Anniversary World Congress on Biosensors, Busan, South Korea	NOV, 2020
IEEE International Conference on Consumer Electronics, Taoyuan, Taiwan	SEP, 2020
International conference on BioMaterials, BioEngineering, and BioTheranostics, Vellore, India	JUL, 2018
IEEE International Conference on System Science and Engineering, New Taipei City, Taiwan	JUN, 2018
IEEE 7th International Symposium on Next Generation Electronics, Taipei, Taiwan	MAY, 2018
International Conference on Biomedical Engineering and Technology, Bali, Indonesia	APR, 2018

PUBLICATIONS IN PEER-REVIEWED JOURNALS

"Detection of Urea in Human Blood using Graphene-based Amperometric Biosensor", ECS Journal	JUL, 2024
"Laser-induced Graphene-based Enzymatic Biosensor for Glucose Detection", Polymers	AUG, 2021
"A Facile Approach for the Electrochemical Sensing of Dopamine using Paper-Based PEDOT:PSS/RGO Graphene Biosensor", ECS Journal of Solid State Science and Technology	NOV, 2020

SKILLS

LANGUAGES

- Chinese, native speaker
- English, advanced proficiency
- German, elementary level

COMPUTER SOFTWARE

- Programming: C/C++, HTML, PHP, Java, Python, SQL
- Layout: PADS Layout, OrCAD, AutoCAD
- Simulation: HSPICE, MATLAB, V-REP (CoppeliaSim)
- Graphing & Analysis: MS Excel, MS Visio, MS Access, Origin

EXTRACURRILIAR ACTIVITIES

INVITED AS A HEALTH CARE CONSULTANT at Chunghwa Precision Test Tech. Co., Ltd.	FEB, 2021
PRESENTED IN NTPU-MSUIIT-USTP JOINT VIRTUAL WORKSHOP on Microelectronics and Semiconductor Technology.	SEP, 2020
DESIGNED THE PROGRAM BOOK AND CERTIFICATE for IEEE International Conference on System Science and Engineering.	JUN, 2018

AWARDS & HONORS

RECEIVED SCHOLARSHIP from COMPEQ MANUFACTURING CO. LTD.	MAY, 2020
RECEIVED "EXCELLENT SENIOR PROJECT AWARD" from National Taipei University Electrical Engineering Department.	JUL, 2018