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| 接收器房屋信封**Wei, Ning-Huang**  [louis840404@gmail.com](mailto:ddlockerwu@gmail.com) (+886) 970-549-951 Kaohsiung, Taiwan | | |
| **Education** | | |
| **National Yang Ming Chiao Tung University (NYCU)**  Master of Biomedical Information (Bioinformation group)  Thesis: *Clustering of immune hot/cold subgroups using the cell populations of tumor infiltrating lymphocytes in cholangiocarcinoma*  **National Central University (NCU)**  Bachelor of Life Science | **2017.09 – 2020.08**  **2013.09 – 2017.06** | |
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| **Work experience** | | |
| **Software Engineer, MPI CO., LTD.**   * Semiconductor equipment software development (wafer inspection function, machine control, and UI design). * Importing customer requirements and troubleshooting. * System maintenance.   **Summer Internship, CRYOCORD Sdn Bhd.**   * Analytic workflow optimization. * Data analysis and visualization. | **2021.11 – Present**  **2019.07 – 2019.09** | |
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| **Technical skills** | | |
| Python, C#, .Net, C++, C, R, Git, data analysis, data visualization, machine learning, decompiler tools (ILSpy, DnSpy)  **Certificates:** ITRI SECS/GEM Communication Technology, Coursera Deep Learning Specialization, TOEIC:790, | | |
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| **OJT and Self-Directed Learning** | | |  |
| **OJT In MPI**   * SkillTree OOP Workshop (using C#) * ITRI SEMI SECS/GEM Communication Technology Workshop * WPF- Modern UI Design   **Self-Directed Learning**   * Deep Learning – Coursera * Algorithm – self-study * Data Structure – self-study | | |  |
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| **Project Achievements** | | |  |
| **In MPI**   * **Wafer Align Calculator (Resolved)**   Develop an algorithm that can calculate the angle for wafer to rotate to horizontal.  It can increase yield rate from75 % to 90%.   * **Log Parser** (**In Progress)**   Design a tool that can automatically parse log for specific purpose.   1. It can reduce at least 60% spending time from manual filter log. 2. Support parsing multiple files.  * **Remote Installer**   Design a tool that can remotely install software from host to server.  Simplify operating procedure from at least four to one. | | |  |
| **Autobiography** | |

I have graduated from National Central University with a bachelor’s degree in Life Science. In the first half of my college life, I usually do biology or chemistry experiments as other students in my class. In my senior grade, I signed up a course called “Big Data Analysis”, the purpose of this course is to teach students using programing to analyze genome sequencing data. I was highly interested in converting numerical data into easily understood graph and charts, thus I decided to apply for the Institute of BioMedical Informatic at National Yang Ming Chiao Tung University.

My main research in master’s degree was about using programming languages (python and R) for data preprocessing and analysis, then used machine learning methods to predict susceptible populations. The research was also submitted to the Chinese Automatic Control Society (CACS) in October 2020. To achieve the research, I read a lot amount of literature, meanwhile designed the experiment process and validate the result repeatedly, this allowed me to develop the ability for problem solving and experimental planning. I also served as teaching assistant to help professor analyzing data and teach students with simple code, this experience made me know how to express my thoughts clearly.

In the second year of the master’s degree, I went to Malaysia for a two-month internship, assist the company to simplify the analytic process and provide the different aspects of analysis. During the period, I have lots of chance to communicate with the supervisors, including interpret the experimental results and discussion the experimental planning, thus strengthen my teamwork and expression ability.

After graduating from master’s degree, I joined the Platform Development Department of MPI as a software engineer, my main tasks include function development and UI design of wafer inspection equipment or improving user experience and detection accuracy according to customer requirements. I also participate the plan of transferring whole system code from c++ to python. Besides new functions development, I also assist customer to introduce requirement and troubleshooting, made me learn how to response to clients and train my work scheduling skill. So far, I have developed a new algorithm which helping customer increase the yield rate and two automatic tools to reduce spending time while troubleshooting.

Currently, I keep improving myself in my spare time, such as learning data structure and algorithm using open-source course. I also use coding judgement website to train my programming and algorithmic skills for personal growth in the professional field. In my future career, I am willing to contribute my ability to my team as much as I can and grow up with colleagues. Thank you for reading this autobiography, I would be grateful if you would give me an opportunity for an interview.