

MARYAM ALAWA

MECHANICAL ENGINEER

CONTACT

☎ 81 927 017

✉ moxuhan0828@gmail.com

EDUCATION

NATIONAL TAIWAN UNIVERSITY, TAIWAN

- Bachelor of Engineering, Mechanical Engineering

NATIONAL TAIWAN NORMAL UNIVERSITY, TAIWAN

- Academy of Preparatory Programs for Overseas Chinese Students, division 3

PART-TIME WORK EXPERIENCE

Gift Shop, Australia

Cashier & Sales Assistant | Dec 2022 – Mar 2023

Managed sales transactions, inventory, and displays while delivering personalized customer service and collaborating with teams to enhance shopping experiences

Gusto Pizza, Taiwan

Part-Time Crew Member | May 2023 – Dec 2023

Operated as cashier and waitress, efficiently managing orders and coordinating dine-in services.

Delivered excellent customer service in a fast-paced, customer-focused environment.

Alibaba's Indian Kitchen, Taiwan

Part-Time Crew Member | Jun 2024 – Dec 2024

Delivered prompt, professional table service while supporting smooth daily operations and upholding high service standards in a fast-paced environment.

SKILLS:

- Practical Problem-Solving
- Cross-Cultural Collaboration
- Cross-functional Communication
- customer service

PROFESSIONAL SUMMARY

Mechanical Engineering graduate with hands-on CNC machining and manufacturing experience. Strong foundation in engineering principles, CAD, and problem-solving. Fluent in English, Arabic, and Mandarin. Quick learner with a practical mindset for efficient project execution.

RESEARCH EXPERIENCE

Undergraduate Research Project: Filters for Signal Processing

National Taiwan University, Taiwan

Developed and simulated MATLAB signal filters for noise reduction, applied to real-world signals, and evaluated performance through visual and statistical analysis.

Undergraduate Research Project: Surface roughness evaluation

National Taiwan University, Taiwan

Investigated surface roughness in horizontal and vertical milling, analyzing finishes with precision tools to optimize manufacturing performance.

Undergraduate Research Project: Worm Gear Design and Performance Analysis

National Taiwan University, Taiwan

Optimized worm gear design and tested efficiency and durability, evaluating geometry and materials to improve load capacity and reduce friction.

Undergraduate Research Project: Machine Tool Performance Evaluation

National Taiwan University, Taiwan

Analyzed machine tool accuracy and stability through vibration, precision, and wear testing to enhance reliability and machining quality.

PROJECTS & PRACTICAL EXPERIENCE

Capstone Project: Aero-Rider Wind-Powered Sailers

National Taiwan University, Taiwan

Designed and developed a wind-powered sailing system using advanced aerodynamic modeling and sustainable energy technologies, optimizing for performance, efficiency, and reliability.

Advanced Machining Practices

Mechanical Engineering Factories, National Taiwan University, Taiwan

Gained hands-on experience in CNC machining and surface analysis using laser interferometry and confocal microscopy, optimizing parameters to enhance efficiency and quality.

Engineering Drawing & Design Tools

National Taiwan University, Taiwan

Proficient in creating detailed engineering drawings and 3D models using AutoCAD and Inventor.

Ensured design accuracy and practicality to support manufacturing and engineering processes.

LANGUAGES:

- English
- Arabic
- Mandarin Chinese