MIKE G. GENERAL

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SUMMARY

Computer Engineering graduate with hands-on experience in IoT, website development, and hardware projects. Eager to contribute technical and organizational skills to support company operations and continuous improvement

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WORK EXPERIENCE

OBX Solutions Technology Inc. (On-The-Job Training)   Feb 2024 - April 2024

- Solo developer for a website using WordPress.
- Collaborated with team members to gather feedback and implement improvements.
- Utilized online resources to troubleshoot and enhance WordPress functionality.

Remotask - Freelance (Remote)   June 2022 - January 2024

- Annotated 2D objects and categorized with accuracy and efficiency.
- Met daily quotas consistently while maintaining high task quality.
- Improved precision by identifying and avoiding low-accuracy submissions.

Outlier - Contract (On-site)   June 2025 - October 2025

- Played and recorded assigned PS5 and Xbox games for testing and documentation.
- Completed assigned gameplay and reporting tasks within project deadlines.
- Ensured the quality of submitted videos and log files met client standards.

EDUCATION

Bachelor of Science In Computer Engineering   2020 - 2024
University of Science and Technology of the Southern Philippines (USTP)
Thesis:

- Specialization in IoT.
- Thesis about a portable communication device for deaf-mute individuals using ensemble

Science, Technology, Engineering, and Mathematics   2018 - 2020
Liceo de Cagayan University Main Campus (LDCU Main)
Research:

- Designer of the building model's structure
- Research about the importance of implementing of buoyancy and bearing systems on buildings.

TECHNICAL SKILLS

- **Programming Language:** TypeScript, JavaScript, Python, C++, Micropython, Kotlin
- **Frontend:** Vue, Nuxt, Tailwind CSS, Shandcn UI, Flutter, HTML/CSS
- **Backend & Database:** Firebase, Tanstack Query, Bun
- **DevOps & Tools:** Git, Github, Docker, Vercel
- **Design Tools:** Figma, Photoshop, Canva
- **IDEs & Development Tools:** VS Code, WebStorm, Intellij IDEA, Arduino IDE, Wokwi Simulator
- **Hardware & IoT:** Arduino, TInkerCAD, EAGLE, AutoCAD
- **Other Skills:** WordPress, Office 365, libGDX, TanStack Router

PROJECTS AND RESEARCH

Trash Tech (Technopreneurship Project)
UI/UX Designer
- **Goal:** Assist a barangay with garbage management
- **Problem:** Manual garbage collection and point conversion system is ineffective.
- **Solution:** Automate the process to improve efficiency and modernize the system.
- **Role:** Ensuring the system is user-friendly for barangay residents.

AGRI (Capstone Project)
Designer & Builder
- **Goal:** Protect farmers and agriculturists from exposure to toxic pesticides.
- **Problem:** Manual pesticide spraying exposes individuals to harmful particles.
- **Solution:** Developed a rover car prototype for automated pesticide spraying,
- **Role:** Designed and implemented the rover car prototype, ensuring it capabbility based on the given terrain.

Automatic Water Refilling Station (Microprocessor PIT)
Developer, UI/UX Designer, and Builder
- **Goal:** Develop an automatic water refilling station controllable via smartphone in offline mode.
- **Problem:** Existing water refilling stations lack efficient management and offline control.
- **Solution:** Implement smartphone control using a mobile web server for better management and time efficiency.
- **Role:** Focusing on hardware tinkering, programming, and designing the web app controller.

DEVELOPMENT OF A PORTABLE COMMUNICATION DEVICE FOR THE DEAF-MUTE INDIVIDUALS USING ENSEMBLE LEARNING (Thesis Prototype)
Annotator, Documenter, Builder, and Designer
- **Goal:** Assist deaf-mute individuals in communicating more effectively
- **Problem:** Communication barriers between deaf-mute individuals and others.
- **Solution:** Developed a prototype using ensemble learning to detect eight classes of American Sign Language via camera.
- **Role:** Created organic datasets, including 8,000 pictures and 8,000 videos, and build the hardware.

Reference:

Engr. Sprinztsie Maye T. Garrucha
Computer Engineer Instructor
USTP, CDO