

ANDRE D. SOMBILLO

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SUMMARY

Versatile computer engineer with extensive technical expertise in hardware and software lifecycles. Proven ability to maintain and enhance legacy systems while also developing innovative product installations from the ground up. Strong problem-solving skills and a commitment to delivering high-quality technical solutions.

EXPERIENCE

IT Intern | Tiger Global Business Services, Inc. | Alabang, Muntinlupa | FEB 2026 - Present

- Troubleshoot hardware and software issues for end-users, improving resolution time.
 - Maintained IT inventory and asset management systems, ensuring up-to-date records.
 - Conducted routine maintenance on computer systems and peripherals.
 - Collaborated with colleagues to document IT processes and procedures.
 - Aided in user account creation and permissions management across systems.
 - Installed, configured, and tested hardware components such as routers, switches, firewalls, and servers.
 - Updated hardware, software, and security protections with the latest standards.
 - Resolved daily IT desktop client issues for multiple departments across various offices.
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SKILLS

Core programming

JavaScript development

Embedded systems design

Deep Learning

Network security and infrastructure

PCB design and development

Microsoft 365 Administration

Problem-solving

Team leadership abilities

AI prompting techniques

C++ and Python

Microcontroller programming

Machine learning

Computer networking

Hardware troubleshooting

IT asset management and documentation

Help desk support

Adaptability and learning willingness

Written communication skills

PROJECTS

• IntelliSort – Machine Learning-Based Reverse Vending System

Developed a machine learning-based reverse vending machine that classifies PET bottles and aluminum cans using computer vision for real-time waste segregation. Implemented an automated reward system with coin dispensing and IoT-based monitoring to improve recycling engagement and system efficiency.

Tools & Technologies: Python, Teachable Machine (TensorFlow Lite), Raspberry Pi, OpenCV, Blynk IoT, ESP32, Embedded Systems, Computer Vision

• GLUCS – Gas Leak Detection and Safety System

Engineered an IoT-enabled gas leak detection system with automated response mechanisms to enhance safety in residential and industrial environments. Integrated real-time gas monitoring, voice alerts, exhaust control, and fire prevention features to reduce risk of explosions and hazards.

Tools & Technologies: ESP32, Arduino IDE, MQ-2 Gas Sensor, Blynk IoT, Embedded C/C++, IoT Systems, Sensors & Actuators

• Solar Seeker – Light Tracking System

Designed and built an Arduino-based solar tracking system that automatically aligns toward a light source using sensor-driven feedback and servo motor control. Improved energy efficiency through real-time light detection and mechanical positioning.

Tools & Technologies: Arduino Uno, C/C++, Photoresistor (LDR), Servo Motor, Embedded Systems, Circuit Design

EDUCATION

Bachelor of Science in Computer Engineering | 2022 - Present

National University - Dasmariñas, Cavite

CERTIFICATIONS

IT Specialist – Networking

Certiport (JUN-19-2025)

IT Specialist – Software Development

Certiport (OCT-7-2025)