

# Aldrin John Manalansan

## Electronics Engineer

An Electronics Enthusiast and a Programming Hobbyist. Experienced in both Embedded Systems Development, and Full-Stack Development.



aldrinjohnlaermanalansan@gmail.com

+63 930 212 7205

#381, Kalye Putol Street, Mangan Vaca,  
Subic, Zambales, Philippines

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facebook.com/drin.john.9

## SPECIALTIES

Can Quickly Adapt to Old and New Technologies

Broad Understanding to Embedded Systems

Broad Understanding to IoT Technology

Create Electronic Control Systems

Create Automation Systems

## TECHNICAL SKILLS

### ARM Architecture

Baremetal | RTOS | Analogs(ADC, DAC) | Clocks(OSC, SPLL, FIRC, SIRC, SOSC, LPO, etc.) | Communications(UART, SPI, I2C, CAN, ENET) | GPIOs | Memories | NVIC(ISRn, IRQn) | Timers(PDB, FTM, PIT, RTC, LPTMR) | etc.

### Embedded System

MCU, ECU, Sensors, Motors, Electronics, AUTOSAR(Classic/Adaptive), etc.

### Software Programming

C, C++, C#, Python, Javascript

### Operating Systems

Windows, Linux

### Integrated Development Environment

Visual Studio, EWARM, Trosos

### Artificial Intelligence Tools

GPT-4, DALL-E

### Website Application Programming

HTML, SCSS, NodeJS

### Event Streaming

RabbitMQ, MQTT, Websocket

### Database Handling

MongoDB(NoSQL)

### Real Time Simulation Tools

Multisim, MatLab

### Computer Aided Drafting

AutoCAD, SolidWorks

### Office Works

Microsoft Office, Google Docs

### Methodology

Agile

## WORK EXPERIENCE

### Embedded Software Engineer FPT Automotives

10/2023 - Present

Makati City, Philippines

Service Outsourcing Company targeting the Automotive Industry

#### Achievements/Tasks

- Member of FPT Automotive Team in the Philippines (FA-PHI)
- Received Professional Training in Classic and Adaptive AUTOSAR
- Received Professional Training in Embedded Systems Development
- Received Professional Training in Embedded Linux Development

Manager: Mr. Junmar Il Sales - junmar.sales@fpt.com

### Embedded Software Engineer Wistron Infocomm, Corp. PH

05/2021 - 05/2023

SBMA, Zambales, Philippines

Tasked on innovating a way to speed up the work process through Electronic Systems, Automation, Macros, and Scripting.

#### Achievements/Tasks

- Innovates Electronic Systems, Automation, Macros, and Scripts for this company.
- Handles Level 3(Most Difficult) Tasks.
- Electronic Control Systems Designer/Developer

Repair Engineering Manager - Engr. Gary Abanilla - +639 916 01 1109 / Gary\_Abanilla@wistron.com

### IoT Software Engineer Multisys Technologies Corporation

05/2023 - 10/2023

Parañaque City, Philippines

A software solutions delivery center that offers a wide variety of IT Solutions across the philippines.

#### Achievements/Tasks

- Creates Different Types of Smart IoT Devices
- Creates Server to control, monitor, and automate IoT Devices.
- Hardware Application Developer of the Paybox Project Team

## PROJECTS

### Wistron Automated Guided Vehicle System (06/2022 - 09/2022)

- Developed a point-to-point automated delivery solution inside a production area.

### Wistron Motherboard Tester (05/2021 - 05/2023)

- Contributed on its Schematic Diagram Design
- Contributed on Programming its Logics and Algorithm.

### Wistron Robot Arm (12/2022 - 02/2023)

- Designed & Programmed its WebApp which supports Motherboard Profiling.
- Programmed its control system which supports Smart Inverse Kinematics.

### Wistron Motor Controlled XY-Table (02/2023)

- Developed its WebApp which supports Camera Streaming & Motherboard Profiling.
- Developed its Control System.

### Multisys Stark Room (05/2023 - 10/2023)

- Setup a room with next-level technology that offers convenient lifestyle to its users.
- Created Different Types of Smart IoT Devices

### Multisys Paybox KIOSK (05/2023 - 10/2023)

- Contributed on the Implementation of the Self-Service Payment Machine that offers end-to-end solution for paying bills safely and conveniently.
- Improved the program logic in pursuit of efficiency and effectiveness in application performance

### FPT Automotives (10/2023 - Present)

- Contributes on ECU Firmware Programming
- Contributes on creating Module/Sensor API's
- Contributes on Creating User Manuals

## EDUCATION

### Bachelor of Science in Electronics Engineering

Lyceum of Subic Bay

06/2014 - 04/2020

SBMA, Philippines

Contact:

- Mr. Norberto Casabal - nvcasabal@yahoo.com  
Academic Affairs Head - Lyceum of Subic Bay

## AWARDS

### Best in ECE Thesis (06/2019 - 02/2020)

Lyceum of Subic Bay

- Design and Construction of Remote Home Power Switching and Monitoring System

## LANGUAGES

Tagalog

*Mother Tongue*

English

*Secondary*