

# Preal Jesse Gepulgane

Upper Balabago, Poblacion Norala, South Cotabato

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## Licenses

- Licensed Electronics Technician

## Qualifications

## Skills

- Knowledgeable in basic Microsoft application (MSEcel, MSPowerpoint, MSWord, and MSAccess).
- Has basic knowledge on some engineering software (AutoCad, GX words, proteus, FPGA, Arduino and Mathlab).
- knowledge in programming (HTML, C++, CSS, javascript, and c#).
- Repair mobile phones(android and apple)
- Knowledge in PCB layout using kicad 9
- Networking Protocol
- Mathematics
- Electronics and Circuits
- General Sciences
- Electronics Systems

## Training and Seminars Attended

- September 15, 2017- Fiber Optics and Its Application
- September 22, 2017- Arduino Basic Seminar
- February 10, 2018- Geographic Information System and Application
- February 24, 2018- PCB Layout and Design
- September 27, 2018- Embedded System & Education 4.0 Seminar
- February 9, 2019- Field Programmable Gate Array (FPGA) Seminar and Workshop.
- February 23, 2019- Introduction to Energy Auditing: Energy Conservation and Energy Efficiency Opportunities
- June 1, 2019- Smart Communication Inc., Internship
- April 29, 2022 - Dahua Smart Traffic Solution

## AWARDS

- 2020- National JIECEP SUMMIT SUMOBOT 5<sup>th</sup> placer
- 2019- Regional JIECEP SUMMIT SUMOBOT Champion
- 2012-2014 Two-time SRAA player (badminton)

## **Work Experience**

**Macare Medicals Inc.** Field Service Engineer   Davao City , Philippines  
July 2021 – April 2022

- Maintenance GeneXpert Machine and Haemonetics
- Repair GeneXpert Machine and Haemonetics
- Troubleshoot GeneXpert Machine and Haemonetics
- Install and configure new equipment's
- Troubleshooting problems
- Task scheduling at each job site
- Train customer inquiries and complaints
- Creating in-depth technical reports
- Performing emergency services
- Ensure proper adherence to facility safety requirements
- Teaching others how to use the equipment
- Monitor and manage new service processes
- Travel around Region 12 and Davao Region for repair and Preventive Maintenance

**Local Government of Sto. Nino** IT Support   Sto. Nino, South Cotabato  
March 13 – July 14, 2023

- Installing and configuring computer hardware, software, systems, networks, printers and scanners
- Monitoring and maintaining computer systems and networks
- Responding in a timely manner to service issues and requests
- Providing technical support across the company (this may be in person or over the phone)
- Setting up accounts for new users
- Repairing and replacing equipment as necessary
- Testing new technology
- Possibly training more junior staff members
- Creator of Tricycle Franchising system using C# link with Microsoft office (Word, and Excel)

**Diagnostika Pilipinas Inc.** Field Service Engineer   Koronadal City, South Cotabato, Philippines  
July 17, 2023 – September 21, 2024

- Troubleshooting, Preventive Maintenance, and Repair on Laboratory Equipments ( Autoimmunity, Coagulation, Hematology, Toxicology, Electrolytes, Clinical Chemistry, Special Protein and General Laboratory Equipments)
- Troubleshooting problems
- Troubleshooting Software bugs
- Task scheduling at each job site
- Creating in-depth technical reports
- Performing emergency services

- Ensure proper adherence to facility safety requirements
- Teaching others how to use the equipment
- Travel all around Mindanao, Philippines

### **Freelance Arduino Developer / Embedded Systems / Automation and Robotics Developer | Self-Employed**

**2020 – Present / Remote**

- Designed, prototyped, and programmed custom Arduino-based systems for clients, including IoT devices, automation solutions, and embedded systems.
- Developed firmware in C/C++ (Arduino IDE) for sensors, actuators, and communication modules (Wi-Fi, Bluetooth, RF).
- Built and tested circuits using components like microcontrollers (ATmega, ESP8266/32), sensors, and motor drivers.
- Collaborated with clients to refine project requirements, troubleshoot hardware/software issues, and deliver functional prototypes.
- Utilized tools such as Oscilloscopes, Multimeters, and Logic Analyzers for debugging and optimization.
- Documented project workflows, schematics (using Fritzing/Eagle), and provided user manuals for clients.

### **PCB Designer**

**Freelance**

**2024-present / Remote**

- Designed and developed custom **PCB layouts** using **KiCad**, including schematic capture, component placement, and routing for optimal signal integrity.
- Collaborated with clients to define project requirements, including **power distribution, signal routing, and mechanical constraints**.
- Produced **Gerber files, BOMs, and assembly drawings** for fabrication and manufacturing.
- Optimized designs for **EMI/EMC compliance, thermal management, and manufacturability (DFM)**.
- Conducted **design verification** through DRC (Design Rule Checks) and ERC (Electrical Rule Checks).
- Assisted clients with **component sourcing** and liaised with PCB manufacturers for prototyping.
- Delivered projects within **budget and timeline**, ensuring client satisfaction.

#### **Key Skills Highlighted:**

- ✓ **KiCad (Schematic & PCB Layout)**
- ✓ **High-Speed/RF Design (if applicable)**
- ✓ **Gerber File Generation & DFM**
- ✓ **Collaboration with Clients & Manufacturers**
- ✓ **Problem-Solving & Debugging**

**Work Exposure**

Smart Telecommunication Inc.

April 2019 – June 2019

Apprenticeship

**EDUCATIONAL BACKGROUND:**

Tertiary: Notre Dame of Marbel University, Koronadal City  
Bachelor of Science in Electronics Engineering  
Graduated: 2020

Secondary: Norala National High School ,Norala South Cotabato  
Graduated: 2014

Primary: Norala Central Elementary School, Norala South Cotabato  
Graduated: 2010