

Jester Paul Arcas

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Education

Laguna State Polytechnic University

Santa Cruz, Laguna

Bachelor of Science in Electronics Engineering

September 2022

Certifications: PRC Licensed Electronics Engineer

Relevant Coursework: Programming, Networking, Microprocessors and Microcontrollers, Logic Circuits

Experience

MEDEV Medical Devices Corporation

Parañaque City

Service Engineer

August 2023 – Present

- Managed **40** hospital and clinic accounts, providing technical support and recommending network solutions that seamlessly integrate with hardware and software systems.
- Successfully generated **₱2.5M** in revenue through repairs and software support.
- Achieved a **25%** efficiency increase by optimizing machine uptime and enhancing equipment performance.
- Conducted effective demos, contributing to **₱5M** in sales.
- Developed a method to retrieve **100 GB** of client's data valued at **₱1.5M**.

Technical Skills and Projects

Languages: HTML, CSS, JavaScript, C#, Python, Typescript, C/C++

Frameworks: .NET Core, ReactJS, Next.js, Express, Tailwind

Technologies: CRUD, Git, SQL, Artificial Intelligence, Internet of Things

Automated Aquaculture Monitoring and Control System [GitHub](#)

- Developed an end-to-end aquaculture management system using **Node.js**, **Express**, and **MongoDB** as database.
- Created a user-friendly **web interface** using Bootstrap for parameter adjustments and real-time monitoring.
- Programmed microcontrollers in **C** and **C++** to regulate actuators using sensor data.
- Leveraged a trained neural network with **25,720** data points for precise predictions (error margin of only **0.036%**).
- AI-driven crop growth optimization resulted in a **25%** faster growth rate compared to manual methods.

Real-Time Stock Information Platform [GitHub](#)

- Developed a web application using **React** (TypeScript) for the frontend and **.NET Core** for the backend.
- Implemented personalized watchlists, allowing users to add stock tickers and track their favorites.
- Designed real-time stock data features, including buy price, market cap, and trading volumes.
- Facilitated interactive discussions through a **comment system** for specific stocks.
- Created a **user accounts system** for managing personalized stock tracking.

Cell Tower Antenna Optimization [Google Colab](#)

- Developed a Python script for precise antenna placement.
- Reduced manual calculation time from hours to just **1 minute**.
- Extracted relevant information related to cell site distance, elevation, and tree growth allowance.
- Automatically generates visualizations and solutions for the given antenna parameters.
- Leveraged **pandas**, **numpy**, **matplotlib**, and **LATEX** for data manipulation, visualization, and solution generation.