Quotation for Engineering Service: Prototype Fabrication Support: Adding functionality.

Client: William Laude

Project: Smart Cage Monitoring

Scope of Services:

Leading the hardware design and implementation.

Updating both the firmware and the mobile app.

Installation and setup of the electronics system.

Sourcing of components to be used in the project.

Review and analysis of project requirements and objectives.

In-depth research and literature review relevant to the thesis topic. [Optional]

Assistance in formulating a clear and concise thesis statement. [Optional]

Guidance in structuring the thesis document, including chapters and sections. [Optional]

The total cost for the Thesis Prototype Design Service is **Php 23208.5**. This includes all the services, and additional consultations or revisions as necessary to ensure a high-quality project. Additionally, we offer a **100% cashback guarantee** if the project is not completed.

Payment Terms:

A 50% [11604.25 PHP] upfront payment is required to initiate the services. Another 30% [6962.55 PHP] payment once the PCB design and electronic hardware are completed. The remaining 20% [4641.7 PHP] will be due upon completion and successful setup of the electronics project.

Project Timeline:

The estimated project timeline assuming we start today is *Feb 29, 2024*. Please note that this can be adjusted based on your specific needs, the start date of the project, and any revisions required.

Terms and Conditions:

The client retains ownership of all project materials and intellectual property.

All communications and project materials will be kept confidential.

Any additional expenses, such as hardware components or software licenses, will be discussed and agreed upon.

Please let me know if you have any questions or want to discuss the terms and conditions further. I am committed to providing you with valuable support to ensure the successful completion and installation of your electronics project.

Cost Breakdown:

Product Development	Tasks	Price	Estimated Timeline	Remarks
Hardware Design	Creating the schematic capture	2500	2	
	Add functionality: 1. Feeder 2. Watering 3. Smoke Sensor 4. Electronic Door lock	5000		All hardware modules connected to a prototyping board to check if the customer requirements have been met. Output design files schematic capture, and electrical layout.
Software Design	Update the firmware development	8000	1	Add the notification and control buttons for the feeder, watering, smoke detection, and door
	Update the mobile app.			lock program to the MIT app inventor. Output design files are flowcharts and code.
System Integration	Assembly: Hardware and Software integration		1	Miscellaneous fees such as delivery fees, labor costs, installation, etc.
	Testing: Validation and Verification	3000		Ensure that the system is working based on the agreed specifications. Check if all the sensors are measuring accurately, including the e-door lock, feeder, watering, and smoke sensor.
Materials	Original Diymore DC 12V 14RPM 2 Wires High Torque Electric Geared Box S30K Reduction Motor	360	Not applicable	Used to the automatic feeder.
	12V 2A 5A 10A 15A 20A Centralized Power Supply 12V 60W Power Adapt AC TO DC for Led Sign CCTV Camera	322.5		Used to power the electronic door lock and feeder.
	Beautiful Homes Store Catch Door Electric Lock Electronic Latch Lock High-Quality 12V Electro-magnet Release Solenoid Slant Slug	516		electronic door lock
	Pet Dog Nozzle Hanging Automatic Portable Water Dispenser Pet Drinker Head Dog Automatic Water	180		Water feeder for the pet.
	1pc Ultra Quiet DC 12V 3.0m 240L/H Brushless Motor Submersible Pool Tank Water Pump for Aquarium	330		Water pump used for water feeder.
	Acrylic, wood, sealant, bolts, and nuts, etc.	3000		Used to build the electronic feeder.
	Total	23209 PHP	4 weeks	

Thank you for considering my services.

Sincerely,

Engresryndell S. Porio, ECT

+63 936 938 6562

Bank Details:

Bank Name: Bank of the Philippine Islands (BPI)

Bank Address: BPI Laguna Technopark PEZA, Admin Building 1, Laguna Technopark, Biñan, Laguna,

Philippines

Account Name: Bryndell Torio Account Number: 1380019511

E-Wallet Details:

E-Wallet Service: GCASH E-Wallet ID: 09369386562