**The Farmer**

*Combat Machine*

The farmer combat machine is an autonomous machine for warfare and peacekeeping. The aim of the machine is to automate attack-defence response and also provide full armour support to its carrier.

**Development**

The machine consists of **Software** and **Hardware**.

**Software**

Its software would be built from scratch, already its programming language has been developed, I call it **Aircode**.

With the said programming language, the machine software control system and intelligence would be designed.

**Hardware**

I intend to use steel for its armour.

The work plan would be to print a mould then cast the metals from a sand mould.

**Equipments**

***Software***

* Circuit board printer
* IC Printer
* A workstation

***Hardware***

* Steel Furnace
* 3D Printer
* Sand Moulds for Casting
* Gas for Heating
* Solar and Inverter for Power Supply
* And Modular Parts for the machine such as wifi module, batteries, camera modules, infrared modules for night vision,
* Brushless DC motor
* Pneumatic cylinders

**Strategy to Procure equipments and ingredients needed for the development.**

Firstly the intention is to import from online stores such as aliexpress and amazon

And eventually self-manufacture the parts to fully suit the need of the invention.

Self-manufacturing would give room for automation which can truly speed up development.

**Development Timeline**

I anticipate a duration of 3-years.

**Year 1**

* being for software development, and hardware procurement / familiarisation.
* Software Simulation of the machine

**Year 2**

* for hands-on casting and putting parts together to seeing them work together in hardware.
* We should have a modular prototype of the machine at this stage.

**Year 3**

* for rounding up the project.

**Equipment Expenses Price (₦)**

3D Printer - **250,000**

Steel melting furnace - **317,065**

Sand Casting Set - **41,800**

Solar and Inverter for Power Supply - **180,000**

Pneumatic Components - **174,000**

Pneumatic Cylinders (Double acting) x4 - **80,000**

Modular Parts such as wifi and camera modules - **500,000**

Infrared Module - **25,000**

**Marketing Strategy**

**The Military**

The intention is to sell the concept of a *“david-goliath”* combat methodology, where in a situation the military were to send an army, all they would need would be to send just a soldier; a soldier enhanced with the Farmer’s suit of armour.

**Projected Return on Investment**

Current valuation of the said machine is a billion naira per piece.