PROPOSAL
FOR
MOBILE ELECTRONIC TRAINING
&
EMPOWERMENT
GHANA

CONTENT

REPUBLIC OF GHANA

PROPOSAL FOR GHANAIAN YOUTH'S
TRAINING AND EMPOWERMENT
ON MOBILE ELECTRONIC HARDWEAR SERVICE AND MAINTENANCE

- **INTENT**

To provide advance mobile electronic device hardware assembly, maintenance & training in the manner of reverse engineering of any and all mobile electronic products by means of Disassembling and Assembling in order to rectify or repair any defects as needed, which includes Refurbishment and Software programming. We strongly believe the country mission and vision statement.

TO ENSURE THAT ALL
GHANAIAN YOUTH HAVE
EQUAL OPPORTUNITIES TO
ACHIEVE THEIR MAXIMUM POTENTIAL

We strongly believe that Ghana has more than enough youthful workforce that can compete with other countries such as China, India, Indonesia, Vietnam etc... in the field of surplus labor for manufacturing and assembling of mobile electronics for major tech companies such as Apple, Microsoft, Motorola, HTC, ASUS, and Lenovo etc.

- **INTRODUCTION**

MCRTC Inc. is an American based company with branches and offices all over the North America and Africa. The Company is managed by a group of experienced and innovative professionals who are highly dedicated, and equipped with a considerable range of combined technical knowledge and expertise in Electronics and Software related industries.

Our main business focuses on reverse Engineering of any and all electronic products by means of Disassembling and Assembling in order to rectify or repair any defects as needed, which includes Refurbishment and Software programming.

We are also well versed in providing, servicing and maintenance of all major electronic devices including but not limited to sophisticated smartphones, computers, point of sales (POS) systems and modified

computerized electronics designed for a specific purpose. Finally we provide specialized training programs for major organizations such as Technical Universities, Colleges, Private Businesses and Government agencies like the Police Service and the Military.

As reference we have worked with the United States (FDIC), Department of Homeland Security, and major Telecommunication Companies, such as, AT&T, T-Mobile and Sprint.

- **BUILDOUT PRECEDURE**
    1. The acquisition of controlled training facilities minimum (100-120 square meters), which will be used in offering a 30 days (C.T) Certified Technician classes.
    2. Training equipment provision.
    3. Funding for training
    4. Student enrollment.

We do this to encourage and equip the mass youth with much needed technological skills and knowledge, so as to open electronic assembly factories in hopes of attracting major tech companies e.g. (LG, Samsung, Apple, Microsoft etc...) to invest in the economy and bring manufacturing and assembly lines to the nation.
Hence creating more jobs and increasing the overall productivity of the youths.

We in addition hope to partner up with various institutions to open multiple retail locations, which will specialize in the sales, repairs and recycling of mobile phones and computers at an affordable cost. We will encourage, promote and aggressively pursue any advantages and opportunities that come our way.

We look forward to any support we may receive from the locals and government agencies, as we believe the available youthful workforce and labor in Ghana is untapped and limitless.

The commencement of this project would possibly put Ghana in a position to compete with other countries in attracting technology companies and manufacturing lines to invest in the economy as an enhanced technology state like any other and increase employment and productivity.

- **OBJECTIVE**

This proposal is a step in hopes of establishing a sustainable partnership to offer our services, training and technical solution as needed.

- **STATISTICS**

Standard data credits to National Communication Authority (NCA)
Based on gathered information on Ghanaian consumers, as of July 2017, the NCA indicates that there are over 37 million estimated mobile subscriptions which is about 27% more than the actual estimated population of 28 million

90% of the current population has a mobile phone
70% of which is smartphone (internet capable)
50% of them purchase a new device every 6 months
30% of them have multiple devices

Based on these statistics we strongly believe that with the proper implementation of our training course the goal is achievable and in essence create self-employment as all the electronics will need service, and equipping individuals with the technical knowhow will help promote the mobile industry and retain employment locally.

- **ABILITY**

Based on our broad knowledge and hands-on experience in electronic hardware and software support, we are able to recruit qualified staff and administer needed training and performance guidelines as needed in order to deploy them.

Our ability to train includes support software such as POS and mobile App developments, which includes but not limited to equipment assembly and installation with professional tools and equipment to ensure quality of work and maximum results.

In addition, our ability to provide real time support is our strongest merit, as we believe in any modern society time lost can never be regained.

- **Value**

At MCRTC our values are our priority, as such the best way to demonstrate that is transparency and the acquisition of public trust, we believe the goodwill and work of our parent company MCRTC Inc. in the United States of America with various government agencies and telecommunication companies speaks large volumes, we have proven to be well-qualified with experienced individuals whose only motive is to succeed and provide the best possible results in any scenario

- **Implementation**

Setting up one main service training center in each region (for ease of access in the community centers) and working with available state agencies to enroll youthful, knowledgeable and qualified individuals to train and provide support with proper manual guidance in reference to insuring the efficiency of the process. We estimate to train 150 people per constituency depending on the region population.

- **Benefits**

*Certification- students will be issued a certificate of completion by MCRTC Inc. of the United States of America. Which is accepted by any mobile electronic service center worldwide.

*Entrepreneur skill development- students will be trained on business development and advancement, focusing on small business management including but not limited to product cost, sales point, and profitability and loses. With the provided skilled training in electronic dis-assembling repairs and assembling individuals will develop additional creativity, therefore creating more jobs and increasing the overall productivity of the youths and economy.

*Customer Service-students will be trained in customer service relations, customer retention and relationship development for the purpose of continuous business advancement.

*Foreign Investors-attracting major tech companies e.g. (LG, Samsung, Apple, Microsoft etc...) to invest in the economy and bring manufacturing and assembly lines to the nation. Therefore, creating more jobs and increasing the overall productivity of the youths.

*Recycling- The rate of repurchase of new handsets will reduce and rather re-service as it would be more affordable and green (recycling).

*Self-employment- after training, every candidate will be able to do basic mobile phone repairs such as screen repairs, charging port, diagnostic, data extraction and transfer, unlocking and general business readiness, with more consumers buying touchscreen phones, the screens are prone to cracks which an average of 3 in every 10 people you meet has

*economic stability- the youth will be occupied in productivity and staying away from mischievous activities while earning an income

*Tools & Equipment- all participants will receive certified tools and equipment with proper training and maintenance on how to use after training

* NOTE- If you have an iPhone please take it out and check the back, it will state (designed by Apple California assemble in China) ghana has enough surplus labor to attract assembly line centers.

- **Consideration & Conclusion**

 In due consideration and conclusion of this proposal, we would like to acknowledge your time, thank you in advance for considering us for this bid, and to conclude we are grateful for the opportunity to demonstrate our ability to fully execute all services as needed in empowering our youths to better serve our community.

- **Course Outline**

Estimated number of participants 150-1000 participants additional information available at (https://www.mycellphonerepairstraining.com/)

  ***Attached with supporting document**

For any additional information, please contact me via EMAIL abdul.annan@mycellphonerepairs.com

Respectfully

Abdul W Annan

President/CEO, MCRTC INC.

- ***COURSE OUTLINE & SYLLABUS***

- ***Certified Technician level, 1, 2, 3***

- BASICS

- *Learning and understanding all 3 major principles of a cell-phone, which is the hardware, mother/logic board and software aspect of the device.

- *Introduction to all tools needed for repairs

- *Electrostatic discharge source and prevention (ESD)

- *Discovery and identification of hidden factors/ clear cut compartment (flex and component)

- *Details to step by step dismantling and assembly of basic phones, sliding phones and flip phones.

- *General techniques to attach and detach components on the mother board (flex cables and clip connectors)

- *How to detect and test components with Multi-meter

- *Keypad malfunction Clean and Repair procedure

- *Flex Ribbon Replacements.

- *General diagnostic procedure.

- *Understanding Basic Power Testing and Trouble shooting

- *Understanding GSM and CDMA Concepts difference

- SMART PHONES

- *Learning and determining the difference between LCD and DIGITIZER

- *Details to step by step dismantling and assembly of touch screen, smart phones and blackberry

- *Changing touch screens(digitizer repairs)

- *changing LCD (liquid color display)

- *Changing of charging ports by flex cable or attach and detachment

- *Learning common touch screen problem and the easiest way to fix them

- *Ability to detect hidden screws and flex cable ribbons

- *Common smart phone problems and quick fix

- IPHONES

- *Complete dismantling and assembly of all current iPhone model

- *full lcd and digitizer screen replacement

- *IPhone Charging Ports, Battery Connectors, Microphones, headphone jacks, replacement

- *studying of mother board parts and functions

- *recovery mode and and update

- *Learning DFU mode and downloading custom ips files

- SOLDERING, REFLOW AND WATER DAMAGE TREATMENT

- *Basics to soldering

- *Equipment and components for soldering

- *How to attach and detach Chips, Charging Ports, Battery Connectors, Microphones, headphone jacks, sim card trays with soldering

- *Advanced Hot Air Reworking

- *How to Detecting water damage

- *Fixing basic oxidation on mother board with reflow to re-align all mother board components and resisters

- *Steps to water damage treatment

- UNLOCKING AND SWITCHING TO OTHER CARRIER

- *Introduction to unlocking

- *Steps to unlocking phones to be used world wide

- *Learning the technical language and understanding technical terms (imei, meid, esd, ect..)

- *Steps to using multi-carrier platform, switching phones from one carrier to the other

- *Access to support and parts acquisition websites

- *Complete over view of training

- *Customer service and communication values

- **idevice certification**

- Apple iPhone

- *Understanding the proper opening techniques of the latest apple iPhones

- *LCD & Digitizer Replacement

- *Power Flex Replacement

- *Headphone Jack Replacement

- *USB Flex Replacement

- *Battery Replacement

- Wi-Fi Repair

- *Water Damage Treatment Solution

- iPod Touch Repair Procedures and techniques

- *Touch screen Replacement Techniques

- *LCD Replacement

- *Wi-Fi Repair fix

- *Battery Replacement

- *Apple iPad Repair

- *Digitizer Replacement

- *LCD Replacement

- *Battery Replacement

- *Flex Ribbon Replacement

- Hot Air Reworking On iPhone, iPod and iPad

- *Understanding Hot Air Reflow Equipment and Temperatures

- *Maintenance of Reflow Equipment

- *Techniques for replacing components

- *Charging Ports

- *Ribbon Connectors

- *Board Reflowing

- *IOS Restore

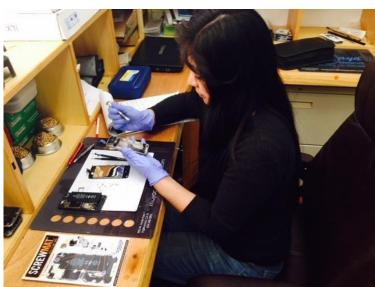- *IOS upgrading

- *IOS Unlocking