

TECHNICAL PORTFOLIO

Augustine Selase Adotri



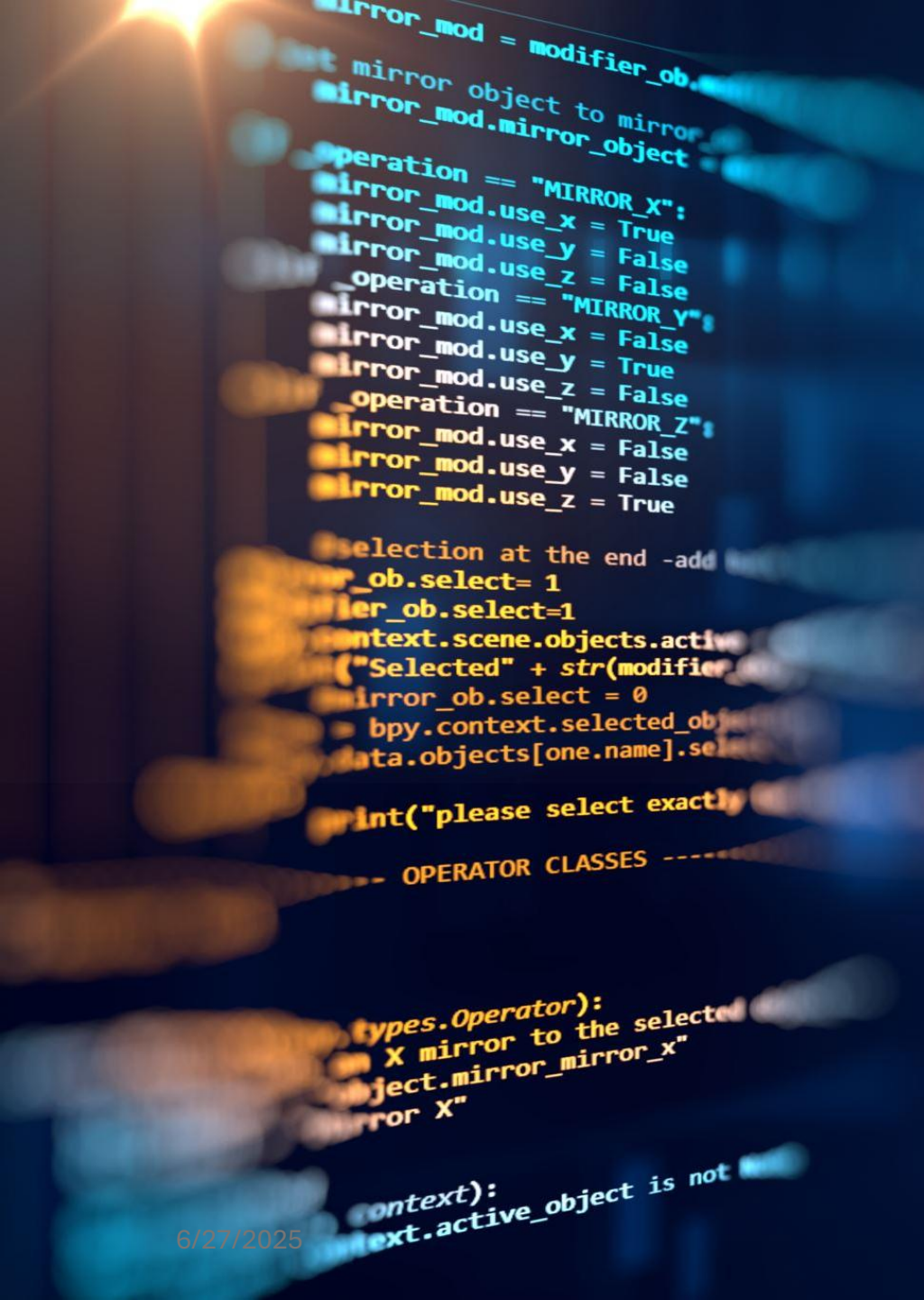
About Me



I'm Augustine Selase Adotri, a Ghanaian IT professional with a BSc in Meteorology and Climate Science from KNUST. I have over 4 years of experience in IT support, data analysis, and system development.



I've worked with the Ghana Civil Aviation Authority, led my own IT startup (Selase IT Clinic), and supported digital solutions across sectors. I'm passionate about tech, innovation, and continuous learning.



Skills

IT Support & Training

Graphic Design

System Administration

Networking & Troubleshooting

Python Programming

Power BI & Data Visualization

Advanced Excel & Data Cleaning

Web Development (HTML, CSS, JS)

Tools

Windows
Server

Avaya Phone
Systems

GitHub

Canva

Visual Studio
Code

Microsoft
Office Suite

Google
Workspace

Adobe
Photoshop

Selase IT Clinic Overview

Purpose:

Providing affordable, reliable, and on-demand tech support and solutions for individuals and small organizations in Ghana.

SELASE IT CLINIC 

PC **REPAIR SERVICES**

Our Services:

- ✓ Data Recovery
- ✓ Component Replacement
- ✓ Virus Removal
- ✓ Operating System Installation
- ✓ Office 365 Installation
- ✓ Bulk SMS

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Selase IT Clinic Overview

Clientele:

- Religious organizations & Soceity (e.g., St. Stephen Parish)
- Hallowed Homes Realty & Property Management
- Individual clients across Accra & Tema

Timeline:
Founded in
2020, actively
supporting
clients to date.

MOTHER THERESA SCHOOL

- KNOWLEDGE WITH INTEGRITY -

STAFF GALLERY

HOME

ABOUT

STUDENT'S GALLERY

CONTACT

BLOG



About

Featured Websites Built by Me

Mother Theresa School Website

- **Platform:** WordPress
- **Features:** Contact forms, blog, staff & student galleries
- **Link:** <https://mtheresaschool.wordpress.com/contact/>



Accra Academy Guidance and Counseling Department

- Attracting The Positive Repelling The Negative. -



HOME • ABOUT • CONTACT • GALLERY

Featured Websites Built by Me

Accra Academy Guidance & Counseling Website

- **Platform:** WordPress
- **Features:** Blog, educational resources, volunteerism content
- **Link:** <https://aapeerc.wordpress.com>

Featured Project – AI- based Malaria Diagnostic Tool

Team: Collaborated with two colleagues

Objective: Build an AI-based tool to detect malaria from blood smear images.

My Role:

- Led the model development using Python (TensorFlow, scikit-learn)
- Handled image preprocessing and system integration
- Coordinated interface design for user interaction

Impact:

- Achieved 90%+ detection accuracy
- Enabled faster, low-cost diagnosis
- Potential use in rural/under-resourced health centers

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OF RAPID INNOVATIVE M...

Design an Artificial Intelligence(AI) algorithm to accurately detect, classify and
presence of malaria parasites in under one minute.

Data and Methodology

This study includes 13,780 parasitized cell images collected during the malaria
activity at Chittagong Medical College Hospital in Bangladesh. The images were
the archives of the National Library of Medicine (NLM) (IRB12972) and can be
https://hincbc.nlm.nih.gov/LHC-research/LHC-projects/image-processing/malaria-

Image Processing

Time Measurement

Result Presentation

Figure 2. Flowchart showing the methodology

Table 1. Parasites Criteria for Detection, Classification and Quantification

Criteria for Parasites				
	Trophozoites Stage	Merozoites Stage	Schizont Stage	Colour Traits
Plasmodium falciparum	1.5 µm	0.7 µm	5.0 µm	black and dark
Plasmodium ovale	2.0µm	2.0 µm	6.0 µm	light brown and dark brown
Plasmodium vivax	3.0µm	1.5 µm	9.0 µm	light orange and dark orange
Plasmodium malariae	3.0µm	2.5µm	6.5µm	light pink and dark pink
Plasmodium knowlesi	3.0µm	1.0µm	4.0µm	light purple and dark purple

References

- Haakenstad, A., Harle, A. C., Tsakalos, G., Micah, A. E., Tao, T., Anjomshoa, M., N., Hay, S. I., Mestrovic, T., et al. (2020). Tracking spending on malaria by sou... 2000–16: an economic modelling study. The Lancet infectious diseases, 19(10), 1155–1164.
- Leke, R. F., Djokam, R. R., Mbu, R., Leke, R. J., Fogako, J., Megnekou, R., Meter, Y., Cadigan, T., et al. (2019). Detection of the plasmodium falciparum antigen... 2 in the blood of pregnant women: implications for diagnosing placental mal... microbiology, 37(9):2992–2996.
- Organization, W. H. et al. (2020). New perspectives: malaria diagnosis. repo... Informal consultation, 25–27 october 1999. New perspectives: malaria diag... WHO/USAID Informal Consultation, 25–27 October 1999.

Acknowledgement

A special thanks to The Almighty God. Our department, our supervisor Dr. Ed... Co-lecturers and also to his teaching assistants for their insightful comments... greatly enriched this study. We are indebted to NLM website for the provisio... research.

Contacts

Project Supervisor

Dr. Edmund Ilimoan Yamba ---

Project Students

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- Adotri Augustine Selase --- asadotri@gmail.com --- 0552964316 / 05013
- Yomaah Tekyiwaah Comfort --- cyomaah.knust@gmail.com --- 020714875

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projects/image-processing/malaria-
by counting 74,972 parasites within
revealed the parasites' cells contained
156 Plasmodium malariae, and Plas-
2 respectively. Our next step is to
rough validation. The findings con-
achieving SDG 3.

Figure 3. Results, showing the parasitized cell.

Table 2. Parasites Counts

Counts for Parasites					
Parasites	Counts	Parasites	Counts	Parasites	Counts
Plasmodium falciparum	70,606	Plasmodium ovale	2	Plasmodium vivax	8
Plasmodium malariae	156	Plasmodium knowlesi	42,000	Total Parasite	74,972

Figure 4. Results, showing the number of Parasite Counts

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DEVELOPMENT AND EVALUATION OF RAPID INNOVATIVE
MALARIA DIAGNOSTIC TOOL USING AN AI-BASED
ALGORITHM

Inkoom Patrick ¹ Adotri Augustine Selase ² Yomaah Tekyiwaah Comfort ³ Dr. Edmund Ilimoan Yamba
DEPARTMENT OF METEOROLOGY AND CLIMATE SCIENCE, COS,KNUST

Abstract

It requires accurate diagnosis and parasitemia measurement. However, available
tools are unreliable given that they often give false positive and negative results.
As a gold standard diagnosis is time-consuming and results dependent on the tech-
nology, to solve these lapses, we developed an AI-based algorithm to automatically detect,
classify and quantify malaria parasites in blood smears in under one minute. We used 13,780 para-
sitized cell images collected during the malaria screener research activity in Bangladesh and archived at
https://hincbc.nlm.nih.gov/LHC-research/LHC-projects/image-processing/malaria-
diagnosis. Our AI algorithm demonstrated high efficiency, by counting 74,972 parasites within
998987197875977 seconds. Our algorithm revealed the parasites' cells contained
70,606 Plasmodium falciparum and 4200 Plasmodium knowlesi, 156 Plasmodium malariae, and Plas-
modium ovale having a relatively low count of 8 and 2 respectively. Our next step is to
validate the algorithm and improve diagnostic techniques through validation. The findings con-
tribute to accurate diagnosis, improved public health outcomes and achieving SDG 3.

Results and Discussion

Figure 3. Results, showing the parasitized cell.

Table 2. Parasites Counts

Counts for Parasites					
Parasites	Counts	Parasites	Counts	Parasites	Counts
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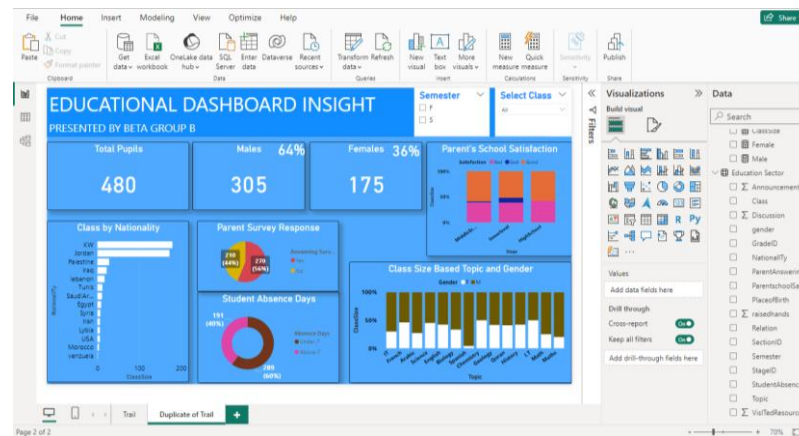
Augustine Selase Adotri

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Data Analysis Work

Projects Involved:	CCR Conference Registration & Reporting
	Pax Romana Database Setup & Analytics
	Lenten Marathon Attendance Data Collection & Tracking
Role & Tools Used:	Built and cleaned datasets using Excel
	Created insightful dashboards with Power BI
	Handled regular updates, reporting, and visual summaries for decision-making

1	First Name	Last Name	Other Name	Full Name	Gender	Participation Status	Participating status	Name of Home Para	Location of Home Para	Name
1	EDIN	DONMYERU		BONN DONMYERU	Female	A Student		Naivety of our lady parish	Random to	CCR
12	Vanyalah	Miyila	Ruby	IRREVELIN RUBY MIYILA	Female	Catholic	A Student	Our Lady of Fatima parish	Tamale	CCR
14	Bennette	Swelling	Apolone	Bennette Apolone Swelling	Male	Catholic	A Student	Holy Trinity	Tamale	CCR
15	Peter	Ayalewo	Kobali	Peter Kobali Ayalewo	Male	Catholic	A Student	Martyrs of Uganda Parish	Singru, Bogotanga	Nawo Maryo
16	Patience	Baalyirise		Patience Baalyirise	Female	Catholic	A Student	St. Theresa's Catholic	CI Random upper west reg	CCR
23	Ferdinand	Alghin	Ngwenanma	Ferdinand Ngwenanma	Male	Catholic	A Student	St. Bernard	Yia	Quam
25	Raisia	Nana	Oladys	Raisia Olan Nana	Female	Catholic	A Student	St. Theresa's Catholic	chur Nawa	Nawo
27	Deborah	Andah		Deborah Andah	Female	Catholic	A Student	St. Joseph	Asanta Western Region	CCR
28	Matthew	Leah	Bapaak	Matthew Bapaak Leah	Male	Catholic	A Student	Garu	Upper East	CCR
29	Everest	Bamweng		Everest Bamweng	Male	Catholic	A Student	St. Joseph parish	Jirpa upper west region	Sool
29	Desmond	Amah	Akayine	Desmond Akayine Amah	Male	Catholic	A Student	St. Augustine Chapplaincy	Nawingo	CCR
41	Catherine	Adongo		Catherine Adongo	Female	Catholic	A Student	Our Lady of the Holy Ros	KNUST	CCR
41	Anna vengler	Bona	Esuaba	Anna vengler Esuaba	Female	Catholic	A Student	Holy Trinity Catholic	Chu-Nanman	Sundity
43	Emmanuel	Womvina		Emmanuel Womvina	Male	Catholic	A Student	St. Anthony of Padua	Jachia Pramo-Kumasi	St. Pat
43	Martin	Kaapbedom		Martin Kaapbedom	Male	Catholic	A Student	St. Agnes	Office	CCR
50	Nosi	Baah	Akumash	Nosi Akumash Baah	Female	Catholic	A Student	Prince of Peace	Kvashanant	Not as
51	Akananah	Dana	Aymongma	Akananah Aymongma	Female	Catholic	A Student	St. Joseph Catholic	chur Bogotanga	St. as
57	Gemma	Faith	Delwinoe	Gemma Delwinoe Faith	Female	Catholic	A Student	Cathedral	Tamale	CCR
59	Kampan	Bright	Kvashna	Kampan Bright Kvashna	Male	Catholic	A Student	St. Paul	On region	CCR
61	Theophilus	Anuah	Ebor	Theophilus Anuah Ebor	Male	Catholic	A Student	St. Elizabetha parish	Elizance	CCR
61	Laurence	Nyalyere	Abia	Laurence Abia Nyalyere	Male	Catholic	A Student	Komenda Parish	Komenda	Musci
63	Patience	Adah	Ayibono	Patience Ayibono Adah	Female	Catholic	A Student	Sacred Heart	Bogotanga	CCR
63	Mary	Vingvanyu	Wey	Mary Vingvanyu Wey	Female	Catholic	A Student	St. Peter's Catholic	Chur Nawa Parish	TANKE
63	Solomon	Lutan	Nemabang	Solomon Lutan Nemabang	Male	Catholic	A Student	St. Theresa's hospital	chur Nomanco East	CCR
63	Rev Dr Ernestina	Zagaboo		Rev Dr Ernestina Zagaboo	Female	Catholic	A Student	St. William Catholic	Chap Amumudui-Kumasi	St. Will
69	OLBERT	YRDEBR		OLBERT YRDEBR	Male	Catholic	A Student	St. George's	Pina	CCR
70	AUGUSTINE	BALEREK		AUGUSTINE BALEREK	Male	Catholic	A Student	IMMACULATE CONCEP	KALIO	GATE
70	Rahla	DERY	NENOFAREYAGA	Rahla NENOFAREYAGA DERY	Female	Catholic	A Student	QUEEN OF PEACE PAR	WADODOLLI	GATHE
70	Felicity	Aleatitah		Felicity Aleatitah	Female	Catholic	A Student	ST Francis of Assisi	Accra	CCR



GROUP 8 - GATA	07-Dec	08-Dec	SAT	SUN	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	SAT	SUN	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec
ISRAEL MARTLEY																
CHINE MICHAEL TABI																
DANIEL KOWESI HUNDAI																
PAA KOFI ANNON ASANTE																
KEVIN ABU JARED																
ARTHUR CALEB JOJO BOSSAMAN																
SHAKESPEARE OROSLIHENE																
NANCY YAA ADOMA ANTWI																

HQ RECORDS	07-Dec	08-Dec	SAT	SUN	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	SAT	SUN	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec
DEREK KWASI SELASI KUMAH																
AUGUSTINE SELASE ADOTRI																
SAMUEL AMANTE KASSON																
ABDUL RAHMAN SAED																

```

# Create a list of all image file names in the source directory
image_files = [f for f in os.listdir(source_directory) if f.endswith('.jpg') or f.endswith('.png')]

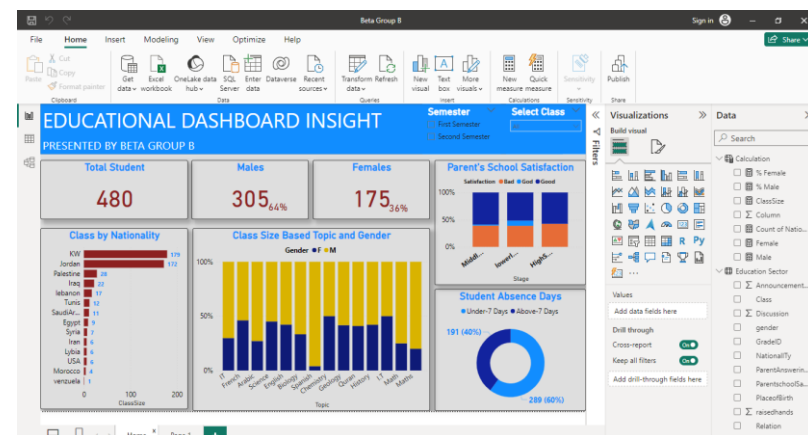
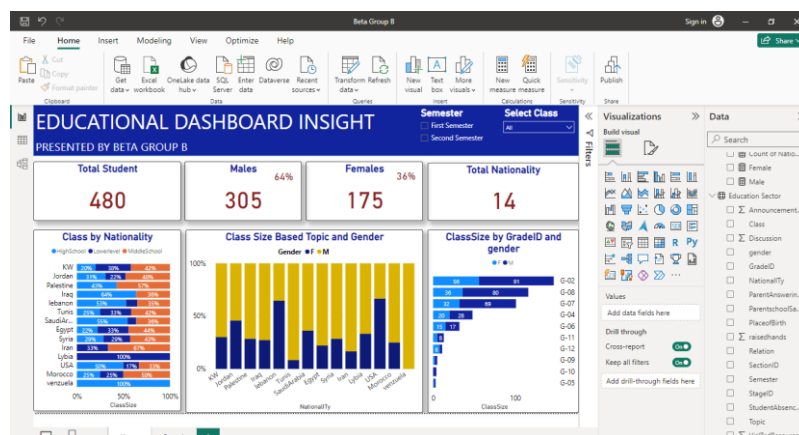
# Calculate the number of folders needed
num_folders = len(image_files) // images_per_folder
if len(image_files) % images_per_folder != 0:
    num_folders += 1

# Create the destination folders
for folder_num in range(num_folders):
    folder_name = f"Folder_{folder_num + 1}"
    folder_path = os.path.join(destination_directory, folder_name)
    os.makedirs(folder_path, exist_ok=True)

# Distribute the images among the folders
for i, image_file in enumerate(image_files):
    source_path = os.path.join(source_directory, image_file)
    folder_num = i // images_per_folder
    destination_path = os.path.join(destination_directory, folder_name, image_file)
    shutil.copy(source_path, destination_path)

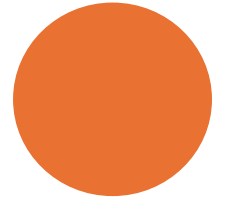
print(f"Images have been distributed into {num_folders} folders with {images_per_folder} images each.")
13779 images have been distributed into 69 folders with 200 images each.

```



Work Experience Highlights

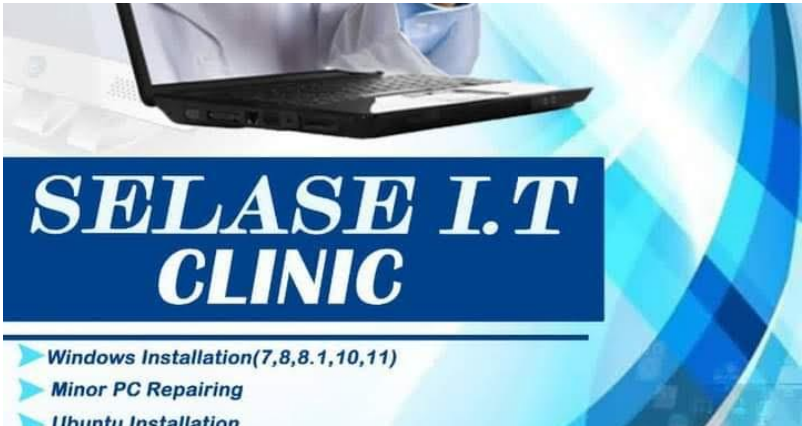
- GCAA: Network support, Avaya phones, records updates
- KNUST: Trained at College of Science Hardware Unit
- Mother Theresa School: Assistant IT teacher
- Leadership: Robotics Club President, NASPA CSR Lead





Technical Certifications

- Cybersecurity (CC – ISC2)
- ITIL Foundation
- ALX AI Essentials
- Business Analytics – Ghana1000



SELASE I.T CLINIC

- Windows Installation(7,8,8.1,10,11)
- Minor PC Repairing
- Ubuntu Installation



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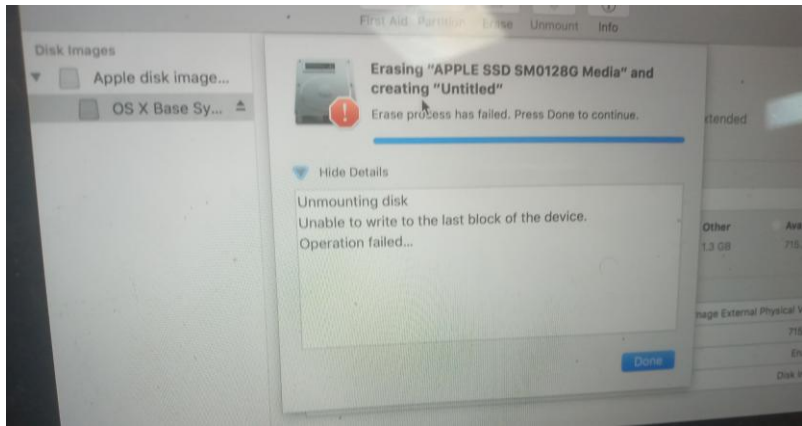
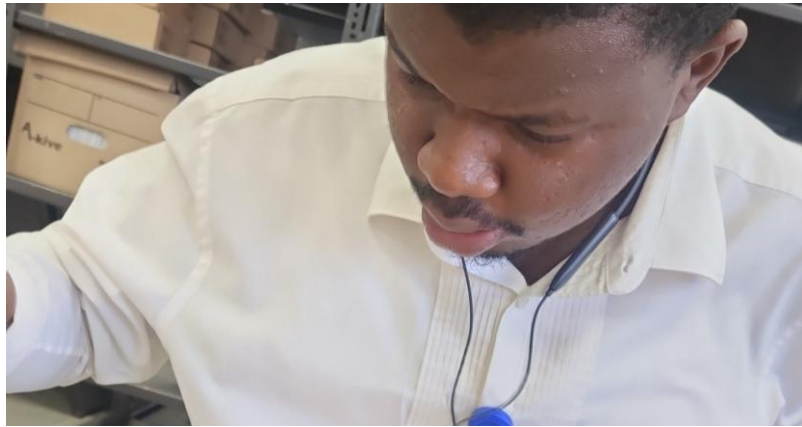
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CONTACT INFO

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Momo No: 0598971788
Instagram @NADELBRAID

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AUGUSTINE SELASE ADOTRI

In recognition of your exceptional dedication and commitment as the **MOST HARDWORKING MEMBER** of ST. STEPHEN COSRA for 2025, your tireless efforts and unwavering enthusiasm have been a shining example to us all.

Rev. Fr. Robert Billy Gbettev
6/27/2025

Bright Edem Kweku Torkpettev

Graphic Designs

Augustine Selase Adotri

Let's connect!



Email: asadotri@gmail.com



LinkedIn Url:
<https://www.linkedin.com/in/asadotri>