



2017 2ND GE LAGOS GARAGE REPORT

APRIL 2017

CONTENTS

PAGE

2

REPORT IN NUMBERS

PAGE

3-4

INSTRUCTION

PAGE

5

EXTERNAL ACTIVATION
AND INDUSTRIAL
TRAINING

PAGE

6

PARTNERSHIP WITH
THE TONY ELUMELU
FOUNDATION (TEF)

PAGE

7-13

NOTABLE VISITORS
TO THE GARAGE

PAGE

14-18

SUCCESS STORIES

PAGE

19

AMPLIFICATION OF
ACTIVITIES THROUGH
PULSE NG

PAGE

20

MOVING FORWARD

REPORT IN NUMBERS

19

participants selected
for the program

16

participants from the
Tony Elumelu Foundation
Entrepreneurship Program

18

participants finished
the program

1

participant selected for
a program in Germany
and had to relocate

16.2

average days attended
out of 20

0

voluntary dropouts

4

engineers delivering
coursework

6

guest lecturers

1

external exhibition at
Social Media Week

4

different investment
groups visited the
garage

4

formal investor
pitches

INSTRUCTION

Based on feedback from the last class, instructions for the 2017 Spring class were much more structured. Each day started with a lecture and then students were given time to work on projects, discuss problems with the engineers, or learn more on their own.

Training was delivered by 3 in-house instructors: Dapo and Ugo are instructors from the original training program in 2014 and 2016. A new instructor and mechanical engineer, Akinwale was added to the team to better improve the quality of the program.

The NeuBridges Program Manager was on site every day to monitor the seamless flow of activities at the Garage. He also delivered lectures, ensured the proper coordination of lecture slides to maximize the flow of classes and personally interacted with every program participant to ascertain that their prototypes were modeled for possible investors.



A lecture session at the GE Lagos Garage Program Feb 2017

INSTRUCTION

The curriculum

Date	Topic	Module Title
Feb 27	Orientation and safety	Induction to basic equipment usage and safety. Various machines, filament technologies, and overview of the 3D Printing landscape
Feb 28	Basics of 3D Printing	Understanding the Technology of 3D Printing-Idea to Prototype
March 1	Basics of 3D Printing	Your first print. How to set up a 3D printer from scratch
March 2	3D Modeling and Printing	3D modeling with various types of software (with Homework) Optimizing your model for 3D printing
March 3	3D Modeling and Printing	Understanding the General Workflow from Idea to Product(Observe and Ideate - Concept Sketch - 3D modeling - creating Stl Files - 3D print)
March 6	Cultivating the Entrepreneurial Mind	Product Design
March 7	3D Modeling and Printing	Observing and Sketching (with Homework)
March 8	3D Modeling and Printing	Understanding Dimensions and Tolerances (with Homework)
March 9	3D Modeling and Printing	Evaluating your 3D print and Design and product testing (Design and Iterate)
March 10	3D Modeling and CNC Milling	Milling 2D and 3D drawing on the CNC machine(Must work in Teams or Groups)
March 13	3D Modeling and Printing	The 3rd dimension: Time. Optimizing your prints for time
March 14	Life	How to be a high performer
March 15	Business Creation	The lean startup. Getting to a MVP as fast as possible
March 16	Business Creation	Building your Business Model-business model canvas
	2D Modeling and Laser Cutting	Drawing in 2D software and cutting on Laser Cutter
March 17	Marketing and Sales	Marketing fundamentals and Digital Strategy/Social Media Marketing
March 20	Business Creation	Building a pitch deck to pitch to investors and practice pitches
March 21	Marketing and Sales	Sales fundamentals and sales role playing and practice
March 22	Business Creation	Legal aspects of starting you company. Creating company formation documents, company registration, shareholders, etc. explained
March 23	Scaling your company	How to package your company and pitch it to investors
March 24	Product Design	Product Photography-How to make your product photos look amazing

EXTERNAL ACTIVATION AND INDUSTRIAL TRAINING

NeuBridges staff transported and set up a demonstration booth including two 3D printers, and manned the booth from 8am to 5pm, Monday to Friday with engineers and volunteers from the current and previous classes.

On Thursday, March 2, NeuBridges conducted a 3 hour training class for about 50 attendees from Social Media Week (SMW) on-site at the Garage.



Attendees training class from Social Media Week



The GE Lagos Garage booth at the Social Media week

PARTNERSHIP WITH THE TONY ELUMELU FOUNDATION

GE Executives developed a partnership with Parminder Vir, the CEO of the Tony Elumelu Foundation (TEF). The TEF staff worked with the Garage team to nominate and select 19 of their most accomplished entrepreneurs.



Team Tony Elumelu with TEF participants at the GE Lagos Garage Program FEB 2017

NOTABLE VISITORS TO GARAGE

United States Ambassador to Nigeria

2017 began on a strong note at the Garage. The US Ambassador to Nigeria, Stuart Symington visited the GE Lagos Garage with representatives from the US Embassy. He was extremely delighted with the innovation and vision of GE for creating the Garage in Nigeria. Program participants from the GE Lagos Garage Dec 2016 discussed their prototype ideas with the Ambassador. He gave constructive criticism and encouraged them to keep thinking for Nigeria and Africa at Large.



*US Ambassador to Nigeria Stuart Symington,
Patricia Obozuwa and Segun Obagbemi from GE*

He also commended the GE team for an excellent initiative and gave some of his opinions on how the Garage should operate.

NOTABLE VISITORS TO GARAGE

Elsie Kanza, Head, World Economic Forum (Africa)

Elsie Kanza, the Head of the World Economic Forum (Africa) and Nanayaa Appenteng, Project Lead, Knowledge, World Economic Forum paid a visit to the GE Lagos Garage. They were treated to a tour of the facilities as the team outlined the vision of the Garage and its successes so far.

During their visit, they also had an intensive discussion with Patricia Obozuwa, Director, Communications and Public Affairs, GE Africa about the prospects of the GE Lagos Garage and possible future collaborations.



Elsie Kanza, Head of Africa, World Economic Forum and Nanayaa Appenteng, Project Lead, Knowledge, World Economic Forum chat with Patricia Obozuwa, Director, Communications & Public Affairs, GE Africa about the GE Lagos Garage.

NOTABLE VISITORS TO GARAGE

Lagos State Employment Trust Fund (LSETF)

Following conversations with the program manager, the Commissioner of the Lagos State Employment Trust Fund, Babatunde Fuad Durosunmi-Etti visited the Garage. The GE team, the Commissioner and some of his representatives held a quick meeting where they discussed possible partnerships to further the vision of the garage.

The Lagos State Employment Trust Fund (LSETF) team got to meet some of the program participants who pitched their ideas and got constructive criticism and advice.



Representatives from Lagos State Employment Trust Fund (LSETF)

NOTABLE VISITORS TO GARAGE

Parminder Vir, CEO of The Tony Elumelu Foundation

To follow up on the partnership between GE and the Tony Elumelu Foundation, Parminder Vir and her team visited the Garage during class session and sat in on a class. They asked program participants for their feedback regarding the class which was overwhelmingly positive.



Team Tony Elumelu with TEF participants at the GE Lagos Garage Program FEB 2017

NOTABLE VISITORS TO GARAGE

Female MBA Students from Lagos Business School

GE Lagos Garage hosted some female students from Lagos Business School in March. The flow of the event was coordinated by Segun Obagbemi. The women got to discuss pressing issues specific to female development in Nigeria and Africa as a whole.

The Program manager for the Garage gave a brief tour of the Garage, as questions and suggestions were entertained.



Neubridges team and the GE team giving a tour of the Garage

NOTABLE VISITORS TO GARAGE

Techstars Atlanta MD, Tyler Scriven

Tyler Scriven, C.E.O Techstar and Imo Udom, co-partner at WePow visited the Garage and got to interact with the participants. They discussed some of the challenges associated with starting a business, getting funding, staying in business and also shared solutions based on some of their own business challenges.



Tyler Scriven, CEO Techstar Atlanta and Imo Udom with FEB 2017 program participants

NOTABLE VISITORS TO GARAGE

Lagos Angels Network (LAN)

The Chairman of Lagos Angels Network, Collins Onuegbu visited the Garage to educate program participants on how to pitch to investors. Some participants got the opportunity to pitch to him and he gave constructive criticism to them.



A cross-section of the program with Collins Onuegbu from Lagos Angels Network and Richard Tanksley

SUCCESS STORIES

The Feb 2017 program participants have already begun to account for several successes and prototype completions.

Sileola Oluyehu

Sileola is a graduate of Marketing from the Federal Polytechnic, Ado Ekiti, Ekiti State. She is the founder of Patgood Knits, an apparel knitting company based in Lagos. She makes sweaters, shawls, mufflers, socks, throw pillows and other knitted items. Her target customers are schools, store owners and private individuals.



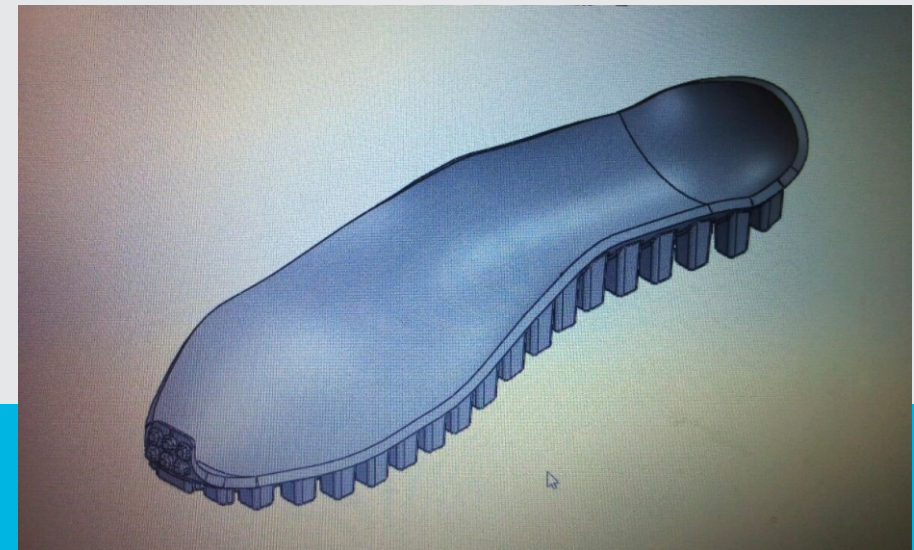
3D printed weaving loom for knitting

SUCCESS STORIES

Nsikan Essien

Nsikan is the CEO of Netima Design and Beauty. She holds an MBA and a BA (Hons) in Language and Linguistics from the University of Calabar, Cross River State. She has used her rich experience in designing and banking to build Netima Happyfeet Footwear, a growing indigenous footwear company.

Through the Garage program, she was able to print molds for her shoe soles, improving her design and production time tremendously from the previous method, which involved making and importing the molds from China.



A graphic design 3D print prototype shoe sole

SUCCESS STORIES

Chukwunonso Osakwe

Chukwunonso has degrees in Electrical electronics, Computer Engineering and certifications in Renewable Engineering.

He is the C.E.O of OSNON Technologies Ltd., a renewable energy company with the vision to build Nigeria's first and Africa's largest hybrid electric tricycle manufacturing company. He intends to 3D print most of the interior and other printable parts.



Miniaturized 3D printed electric tricycle

SUCCESS STORIES

Samuel Ukpa Ogbu

Samuel has a bachelors degree in Electrical and Electronics Engineering, and several reputable certificates and awards. He is the founder of Skytrain Electronics Ltd., incorporated in September 2015.

He has a life vision of contributing to bridging the digital gap that exists between Africa and the Western world. He is presently experimenting on incorporating 3D printed parts into his electronic devices.



A 3D printed frame for a digital Clock

SUCCESS STORIES

Arinze Eze

Arinze has 21 years of experience in the aviation industry. His passions for flying and agricultural industry led him to develop the idea of crop spraying drones.

He was selected from the Tony Elumelu Foundation (TEF) to participate in the GE Garage program, where he got mentorship on how to pitch to investors. Arinze was recently chosen as a finalist in the Global Social Ventures Competition (GSVC) in Silicon Valley, California.



Crop spraying drone

AMPLIFICATION OF ACTIVITIES THROUGH PULSE

NeuBridges managed the relationship with Pulse and continually provided them with content for Pulse's online news site and social media platform.

Pulse produced over 50 articles that were amplified on social media, covered 2 events with video and live streaming and 3 events with photography coverage. They also produced 3 video success stories. The total reach of all the GE content on Pulse's various channels was over 1 million people.



50+

Articles

3

Video Success Stories

1million

Total People Reach

MOVING FORWARD

Most of the feedback from this set was positive, the time adjustment was in favor of most of the participants.

The curriculum accounted for stronger sessions and we look to add more courses that will be of relevance to the program

We also look forward to securing a date for the next program as soon as possible.



