



FABLA
Consortium brand for local empowerment.

BOHOL Philippines



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A Fab Lab, or digital fabrication laboratory, **is a place to play, to create, to mentor and to invent: a place for learning and innovation.**

Fab Labs provide access to the environment, the skills, the materials and the advanced technology **to allow anyone anywhere to make (almost) anything.**

The Fab Lab program was started in the Media Lab at **Massachusetts Institute of Technology (MIT)** as a collaboration between the Grassroots Invention Group and the Center for Bits and Atoms, **broadly exploring how a community can be powered by technology at the grassroots level.**



Tomas Diez

Sherry Lassiter

Neil Gershenfeld

Founder of FAB LAB - **Neil Gershenfeld**, Director of the Center for Bits and Atoms at MIT, **Sherry Lassiter**, President & CEO of The Fab Foundation, and **Tomas Diez**, Founding Partner and Director of the Fab City Foundation.



a global community of learning and innovation with **over 2,000 digital fabrication labs in over 120 countries.**



FAB LAB
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BOHOL Philippines

- **1st FABLAB in the Philippines**
Inaugurated last **May 2, 2014**
- **1st FABLAB ASIAN NETWORK (FAN1)**
INTERNATIONAL CONFERENCE
- **1st MAKERS CONFERENCE (MAKERSCON)**
FABLabs PH Makers Conference (December 2022)



 **FAB LABS**
PHILIPPINES



FOUNDING MEMBER / 2022 NETWORK GROWTH CHAIR & 2023 NETWORK QUALITY CHAIR
FAB LABS PHILIPPINES NETWORK

2022

FABLabs PHILIPPINES CALENDAR

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
8 INDUSTRIAL DESIGN 13 SDG MILESTONES 2022	9 INDUSTRY INNOVATION AND INFRASTRUCTURE 10 GOOD HEALTH AND WELL-BEING 11 CLIMATE ACTION 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 13 PEACE JUSTICE AND STRONG INSTITUTIONS 14 QUALITY EDUCATION 15 CLEAN WATER AND SANITATION 16 PARTNERSHIPS FOR THE GOALS	3 GOOD HEALTH AND WELL-BEING 7 INDUSTRY INNOVATION AND INFRASTRUCTURE 10 GOOD HEALTH AND WELL-BEING 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 13 CLIMATE ACTION 14 PEACE JUSTICE AND STRONG INSTITUTIONS 15 CLEAN WATER AND SANITATION 16 PARTNERSHIPS FOR THE GOALS	12 INDUSTRY INNOVATION AND INFRASTRUCTURE 13 CLIMATE ACTION 14 PEACE JUSTICE AND STRONG INSTITUTIONS 15 CLEAN WATER AND SANITATION 16 PARTNERSHIPS FOR THE GOALS	13 CLIMATE ACTION 14 PEACE JUSTICE AND STRONG INSTITUTIONS 15 CLEAN WATER AND SANITATION 16 PARTNERSHIPS FOR THE GOALS	13 CLIMATE ACTION 14 PEACE JUSTICE AND STRONG INSTITUTIONS 15 CLEAN WATER AND SANITATION 16 PARTNERSHIPS FOR THE GOALS	14 PEACE JUSTICE AND STRONG INSTITUTIONS 15 CLEAN WATER AND SANITATION 16 PARTNERSHIPS FOR THE GOALS	16 PARTNERSHIPS FOR THE GOALS 17 INDUSTRY INNOVATION AND INFRASTRUCTURE 18 GOOD HEALTH AND WELL-BEING 19 CLIMATE ACTION 20 RESPONSIBLE CONSUMPTION AND PRODUCTION 21 PEACE JUSTICE AND STRONG INSTITUTIONS 22 QUALITY EDUCATION 23 CLEAN WATER AND SANITATION 24 PARTNERSHIPS FOR THE GOALS	4 QUALITY EDUCATION 6 CLEAN WATER AND SANITATION 8 INDUSTRIAL DESIGN 10 GOOD HEALTH AND WELL-BEING 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 14 PEACE JUSTICE AND STRONG INSTITUTIONS 16 PARTNERSHIPS FOR THE GOALS	5 CLIMATE ACTION 6 CLEAN WATER AND SANITATION 8 INDUSTRIAL DESIGN 10 GOOD HEALTH AND WELL-BEING 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 14 PEACE JUSTICE AND STRONG INSTITUTIONS 16 PARTNERSHIPS FOR THE GOALS	17 PARTNERSHIPS FOR THE GOALS 18 INDUSTRIAL DESIGN 19 GOOD HEALTH AND WELL-BEING 20 CLIMATE ACTION 21 RESPONSIBLE CONSUMPTION AND PRODUCTION 22 PEACE JUSTICE AND STRONG INSTITUTIONS 23 QUALITY EDUCATION 24 CLEAN WATER AND SANITATION	
- FABLabs MIDAMAO - FABLabs NEGROS - FABLabs BOHOL	- FABLabs BICOL - FABLabs NEGROS	- FABLabs CARAGA - FABLabs MIDAMAO - ENTHUS MINI MAKER SPACE	- FABLabs DAVAO - FABLabs ISLAU	- FABLabs TUTUBAN - FABLabs CARAGA	- FABLabs CDO - FABLabs ISLAU	- FABLabs BISAYA - ENTHUS ISWCC	- FABLabs CARAGA - FABLabs ARAGAO	- FABLabs CDO - FABLabs ISLAU	- FABLabs CDO - FABLabs ISLAU	- FABLabs MAIN - FABLabs ISLAU	- FABLabs PTC - FABLabs ISLAU



In collaboration with the founding members, stakeholders, and international makers of FABLabs Philippines, Discover Makers is able to promote the 17 United Sustainable Goals initiatives.





FAB LAB

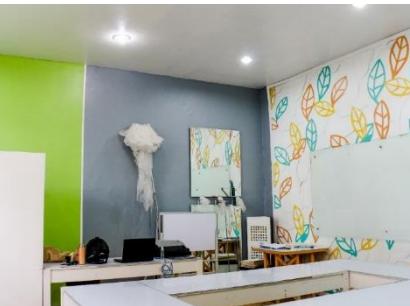
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BOHOL Philippines



WELCOME TO FABLAB BOHOL PHILIPPINES





Fablab Bohol Services



Training Provider

Seminars and trainings are conducted to hone the skills of SMEs, makers, students and even teachers. The fablab has hosted classes/sessions in 2D and 3D Design, Introduction to Arduino, 3D Printer Assembly, Product Design Coaching/ Mentoring, and Digital Fabrication, among others.



Technology Access Center

We assist you in product innovation through design consultation , digital fabrication and rapid prototyping services . In Fablab you can also learn how to do Digital Fabrication.



Service Bureau

Available digital fabrication equipment enable SMEs and Makers to move quickly from ideation to prototyping and onto market testing. FabLab Bohol has the capacity for short run production giving SMEs the ability of speed to market.



Tours

To promote better engagement with its communities, FabLab Bohol accommodates tours in its facilities. These tours enable better understanding of the capabilities and applications of its digital fabrication equipment. This stimulates further interest from SMEs , entrepreneurs, students and makers to move deeper into the product innovation process

FABLAB BOHOL AS **TRAINING PROVIDER**



LIVELIHOOD WORKSHOPS



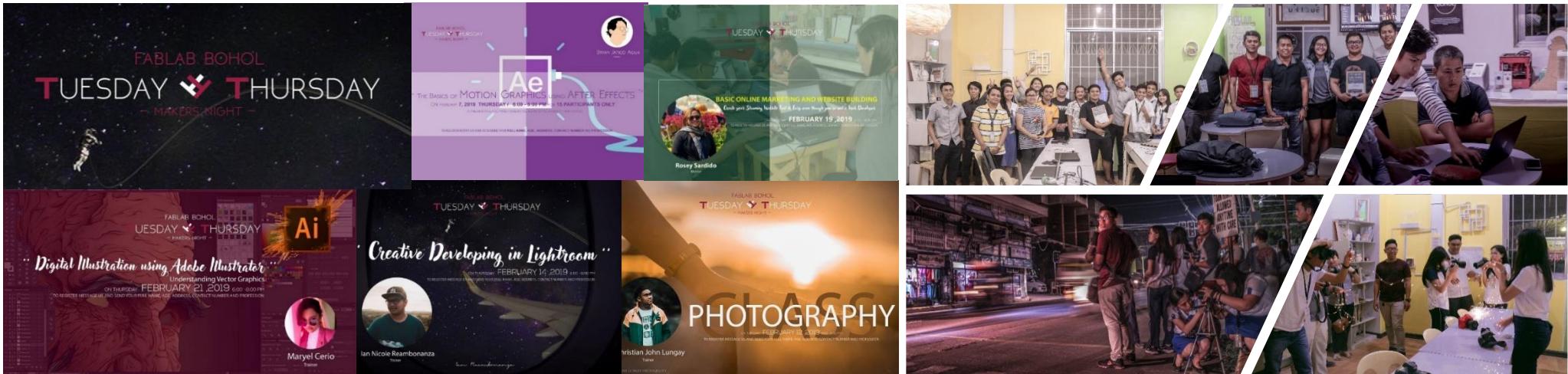
WORKSHOPS FOR ACADEME AND INDUSTRY



WORKSHOPS FOR PWD



WORKSHOPS FOR ENVIRONMENTAL ADVOCATES



WORKSHOPS FOR YOUTH



WORKSHOPS FOR KIDS



2023 DIGITAL DESIGN WEEK



FABLAB BOHOL SHORT COURSE WORKSHOP



FABLAB BOHOL AS **TECHNOLOGY ACCESS CENTER**

FABLAB CLASS

(DIGITAL FABRICATION CLASS)





DIGITAL FABRICATION PROJECTS

ADD DISASTER SHELTER



ALLOWING MAKERS TO LEARN DIGITAL FABRICATION

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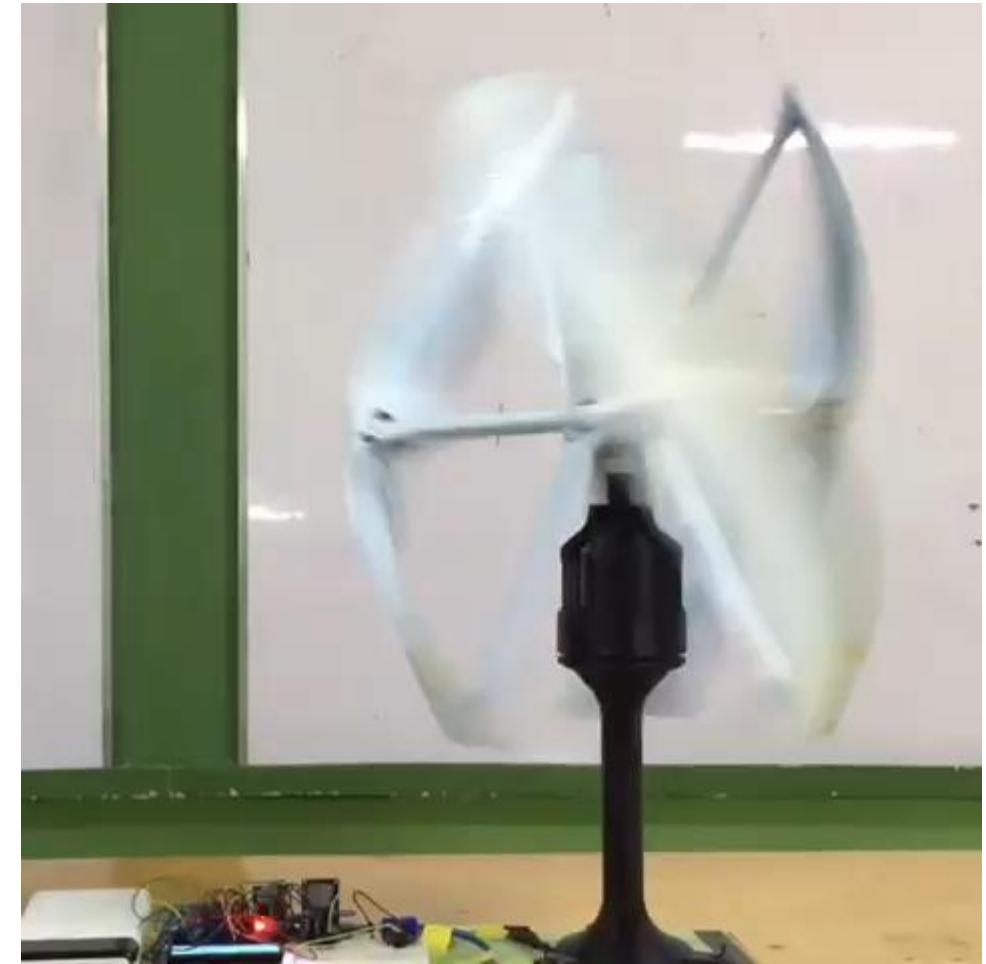
LEARNING FROM 2D DESIGN TO 3D MODELING TO DIGITAL FABRICATION



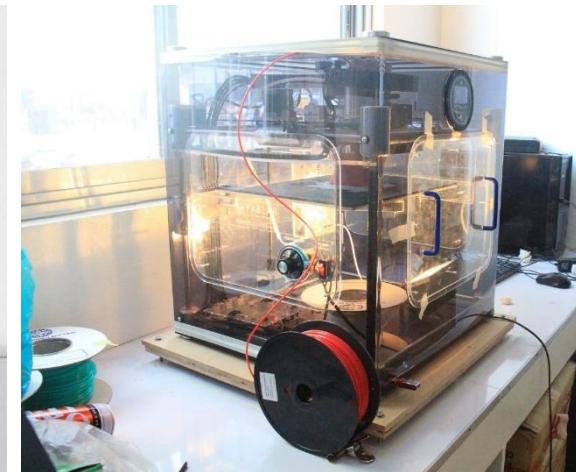
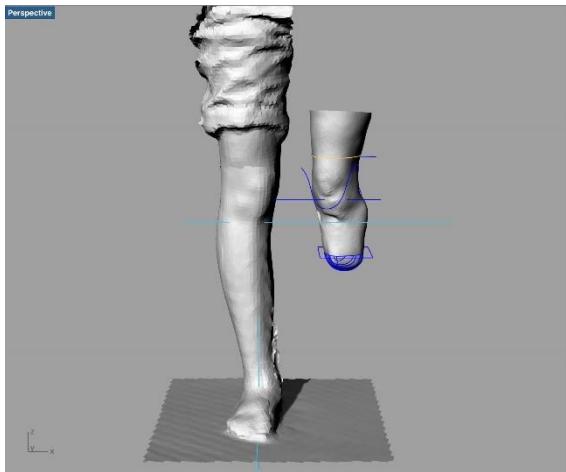
MAKERS from Luleå **University of Technology in Sweden** finally turn their mock-up prototype into a working prototype in connection with their study on **Providing Safe Water Access** to the Island of Pamilacan Bohol.

3D-PRINTED VERTICAL AXIS WIND TURBINE

(HIGH SCHOOL STUDENTS)
PRODUCT DEVELOPMENT THRU
DIGITAL FABRICATION – 3D
PRINTING



3D-PRINTED PROSTHETIC LEG



3D-PRINTED
AIRPLANE TURBINE
(Mock-up)



FABLAB BOHOL AS **SERVICE BUREAU**

PRODUCT DEVELOPMENT THRU DIGITAL FABRICATION BY OUR INTERNS



SUPPORTING LOCAL MSMEs



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SUPPORT LOCAL ENTREPRENEURS FOR PRODUCT DEVELOPMENT



MOLDERS FOR SOAP , CANDIES , CANDLES AND CHOCOLATES



PRODUCTIVITY ENHANCEMENT
PROVIDING SOLUTION OF OUR LOCAL MSME'S PROBLEM





SUPPORTING LOCAL MSME'S ON ADDING VALUE TO IT'S PRODUCT



Solution of our Local Problem



MATERIAL MANIPULATION

SUCCESS STORIES

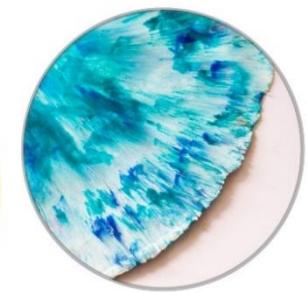
HEATPRESS

A machine that allow us to Upcycle waste plastic and turn it in to Plastic sheet that can be use as a material for making products.



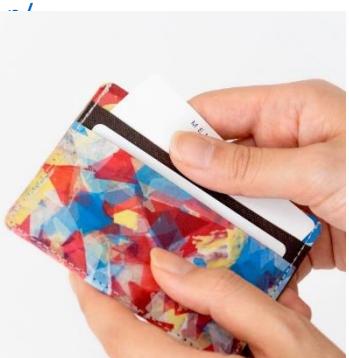
UP CYCLING : WASTE PLASTICS INTO A RAW MATERIAL FOR DESIGN, ETC.

HELPS THE ENVIRONMENT



FOR INQUIRIES VISIT

<https://www.facebook.com/kure.association>



PROVIDE
LIVELIHOOD

TO THE WOMENS OF TAGBILARAN CITY AS DIRECT BENEFICIARIES



KURE is an organized women group of KALIPI Tagbilaran with the goal of creating a livelihood from upcycling waste plastic bags. Reinventing Plastic Bags into Plastic Sheets that are converted into products



Ms. Crispina Sarate Singh
Owner, Crissander Enterprises

With the opening of FABLAB Bohol I saw a **great potential of digital technology** in our production process. It gave me an idea that I can create and innovate so many things with our wood materials using laser machine technology.

FABLAB inspired me to apply digital fabrication in our production. Through the help of DOST SETUP we were able to acquire laser machine which greatly increase our production capacity.

How FABLAB BOHOL EMPOWERED you as an Entrepreneur?

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Ms. Christine Virtucio
Owner, Christine Virtucio Designs

“

Other than a room of highly equipped types of machinery, it is a hub for creative minds.

A space where creating and innovating made easy. Making ideas into reality. Processes became very useful for our brand and our production. From laser cutting to wood milling to prototyping all made under one house fast and easy! With these advanced technology offered by FabLab, businesses will benefit and growth achieved. ”

How FABL
BOHOL
EMPOWERED you as an
Entrepreneur?



Ms. Claire Venice Canilao
Owner, Prime of Asia Handicrafts

With Fablab, I was able to see opportunities and possibilities to manipulate materials in a digital way. I can now make my own bag handles and other personalized products with the help of their technology and expertise.

“

How FABL BOHOL EMPOWERED you as an Entrepreneur?

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Mr. Ernesto Pernia
Owner, Bohol's Quality Pastries

It really affects my business in terms of income. Instead of spending so much money for the packaging which is expensive in private print shop, fablab provided us with cheaper packaging which caters msme's which creates more saving for us and can also help in product development.

Fablab has all the amenities that we needed in terms of packaging and even designs.

“

How FABL BOHOL EMPOWERED you as an Entrepreneur?

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Mr. Jovie Gil Montajes
Founder, Light of Hope

Fablab Bohol is one of the FabLabs in Cebu Province who have been very supportive to the Light of Hope PH Advocacy in helping the poor families living off the grid here in the Philippines, with the support of the Department of Trade and Industry Region VII, Assistant Regional Director Nannete Arbon and Fablab Bohol Technical Manager Jerome Manatad.

Fablab Bohol will always be part of the organization's history in building a more sustainable future. Cheers and more Power!

“

How FABL BOHOL EMPOWERED you as an Environmental Advocate?

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Mr. Jed Biliran
Young Maker

In my opinion, stepping into Fablab is like opening a door that lets you open more doors than you previously thought weren't even accessible. It's very reassuring to us makers because it gives us an environment where we don't have to go through those old hindering thoughts anymore, like "maybe this idea is unreachable" or "we don't have the technology to test this".

So in short, it's liberating. And this sort of freedom is what lets makers fully explore all those creative ideas that we previously just hold back.

“

How FABL BOHOL EMPOWERED you as a Maker?

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CORPORATION

SOLE PROPRIETORSHIP

ADVOCATE

YOUNG MAKER

E-Trike

SUCCESS STORIES



STARTUPS



Mr. Roy Bayonas

Owner, PrintBit & Yorbs Electronics



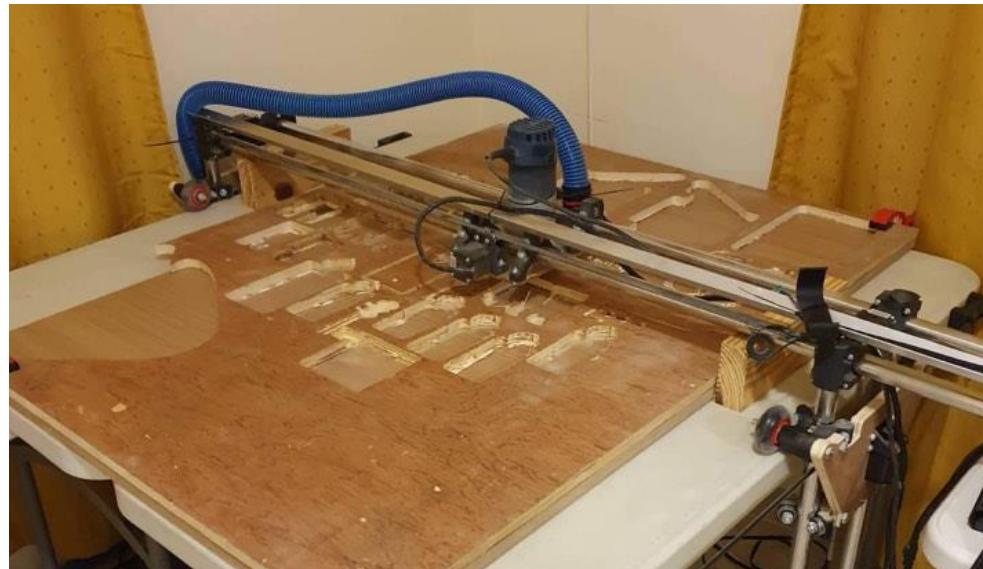
“

When I started our first startup, our MVP was made in Fablab. We used their laser cutter and 3D printer. Those machines really helped us. Without them, we might not be able to produce our MVP on time. Aside from the machines, Fablab also serves as an umbrella for Bohol startups and innovators. I have met many guys with the same interests as mine.

A lot of learnings and collaborations are happening in Fablab. As a founder, I say Fablab is one of the best things that ever happened in Bohol.

”

**How FABLAB BOHOL
EMPOWERED you as an
Entrepreneur/Maker?**



CNC - LASER

STARTUPS



Mr. Ajay Verma
Maker

“

Fablab Bohol allows me to experience in the operation of the CNC Milling Machine before **building my own machine** and investing money in it. Upon confirmation that my designs/ideas are working, I pursued in building it.

Without Fablab-Bohol, I would be hesitated and not sure of realizing my ideas. It is also good to know that there are specialists that I can get advice from in case I need help in building my own machine.”

How FABLAB BOHOL
EMPOWERED you
as a Maker?



Champions for Outstanding Creative Research at the 2019 Regional Invention Contest and Exhibits (Rice) for their entry "Development of Ecobangku from Upcycled Plastic Sheets."

CHAMPION FOR DOST REGIONAL SCIENCE AND TECHNOLOGY FAIR
Our young Makers in San Jose National High School – Talibon Bohol.



SOLAR AERO MECHANICAL
HYDRO PUMP



Installation of another 3D Printer at [Governor Celestino Gallares Memorial Hospital](#) Rehabilitation Center FABLAB Bohol team conducted 3D Printing and 3D modeling with our Doctors, Physical Therapist and Occupational Therapist.





KOBAYASHI LAB



WIKI HOUSE

The Balilihan Wiki House is made of precision cut marine plywood done by a CNC machine called a Shopbot. Cutting took 2 weeks while assembly took only 2 days.

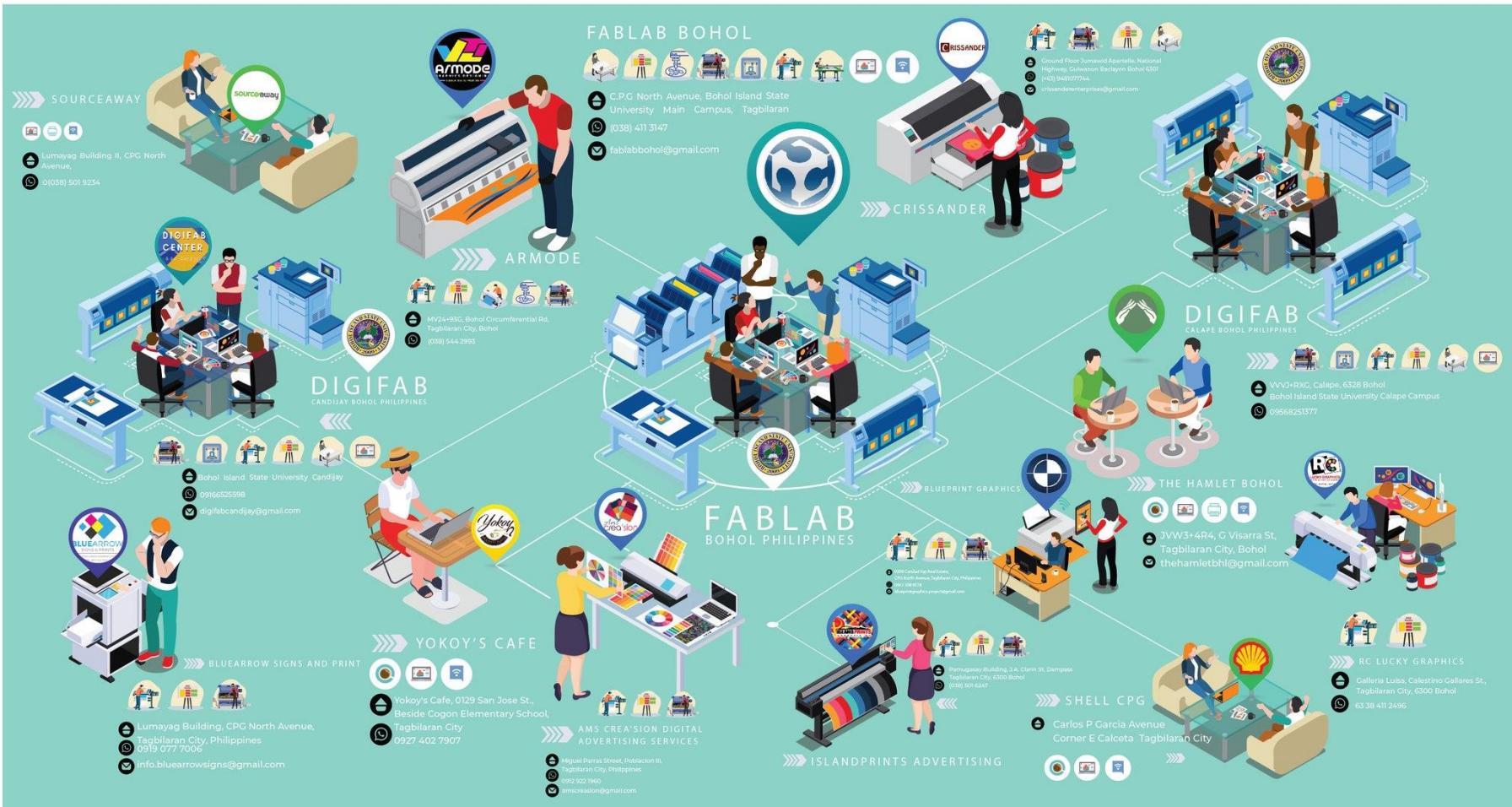
This project is a fine example of how digital fabrication can be applied to provide solutions to local problems.

The Wiki House concept is an approach that can be applied to disaster response.



FABLAB BOHOL PHILIPPINES

CO-WORKING SPACE + MAKERSPACE + DIGITAL FABRICATION LAB/SERVICES



Digital Embroidery



Laser Cutting/Engraving



3D Printer / 3D Scanner Vacuum Former



Multi-format Printing



Brand Development & Graphic Designing / Product Design



CNC MILLING



PRINT AND CUT



SERVES COFFEE & SNACKS



CO-WORKING SPACE



OFFERS WIFI

COLLABORATION PROJECT



PRODUCT DEVELOPMENT PROCESS

Prototyping



Experts Evaluation



Product Testing



Digital Fabrication / Production



FACE SHIELDS

using Laser Cutter, Print & Cut Machine and 3D Printer



BOHOL

4,229

**FREE FACE SHIELDS HAS BEEN TURNED OVER
TO THE ENTIRE PROVINCE OF BOHOL**

The map illustrates the distribution of 300 Face Shields across Davao City, with each location marked by a dashed line and a callout box indicating the recipient. The locations are categorized as follows:

- RECEIVED FACE SHIELDS (Dark Blue):**
 - Inabanga Fire Station (25)
 - RHU San Isidro thru PCCED (26)
 - 12 BHW of San Isidro thru PCCED (80)
 - 21 BHW of Antequera thru PCCED (105)
 - Cong. Natale P. Castillo Memorial Hospital Loon (48)
 - Maribojoc Community Hospital (50)
 - RHU 1 Loom (30)
 - RHU 2 Loom (25)
 - GCGMH4 - Provincial Hospital (100)
 - CDPRMHO Tagbilaran (9)
 - Civil Service Bohol (26)
 - Department of Health (19)
 - BISU MC Security Guard and Clinics (1)
 - Armada (3)
 - TV Advertising (65)
 - Allied Care Experts Medical Center (6)
 - Veterans Bank (4)
 - Tagb. Medical Clinic (9)
 - DOH - HMO Tagbilaran (20)
 - DOH - JHS Hospital (20)
 - Provincial Health Office (72)
 - Lim Hong Kiu - for Bohol Dialysis Centers (10)
 - Maternity and Children Hospital (10)
 - Bohol Community Hospital (27)
 - Bohol Doctors thru PCCED (100)
 - Holy Name University Medical Center (100)
 - Ramiro Hospital (40)
 - Tanaga 117 Health Center (50)
 - Medicine Makers Group Cooperative Hospital (50)
 - Tagbilaran Community Hospital (15)
 - Ramiro Hospital thru Rotary Club of Tagbilaran (11)
 - COOP Hospital thru Rotary Club of Tagbilaran (10)
 - Bohol Hospital thru Rotary Club of Tagbilaran (10)
 - Bohol Dental Institute thru Rotary Club of Tagbilaran (5)
 - Gift of Life thru Rotary Club of Tagbilaran (14)
 - Rotary Club of Tagbilaran Volunteers (5)
 - Department of Trade and Industry (3)
 - Galleries Hospital Lab (17)
 - PPW Pub & Tagbilaran City (35)
 - PHP (20)
 - DOH NDP GCGMH (35)
 - Dependable Security Agency (3)
 - Liberia Grocery Delivery Services (3)
 - Philippine Postal Corp. Ent. (3)
 - Locsa Dental Clinic (3)
 - Provincial Health Office (26)
 - Frontliners via FABLAR Staff (26)
 - St. Isidro Medical Clinic Carmen (1)
 - Inabanga Fire Station (50)
 - RHU Inabanga (50)
 - Francisco Diagohoy Municipal Hospital Inabanga (50)
 - Catigbian District Hospital (30)
 - MTO Catigbian (5)
 - RHU Catigbian (25)
 - DRRM Catigbian (25)
 - RHU San Isidro thru PCCED (26)
 - 12 BHW of San Isidro thru PCCED (80)
 - 21 BHW of Antequera thru PCCED (105)
 - Catigbian (30)
 - Clarin Community Hospital (40)
 - RHU Clarin (2)
 - BISU Clarin Clinic (2)
 - RHU Tubigon (40)
 - BHW Calape (30)
 - RHU Calape (2)
 - BISU Calape Clinic (2)
 - RHU Cortes (28)
 - BHW Loreto (10)
 - RHU Corella thru PCCED (15)
 - Tagbilaran City (2)
 - Chressander Enterprises (20)
 - RHU Badayon (20)
 - Bureau of Fire Protection Dausil (15)
 - RHU Dausil (25)
 - RHU Panglao (30)
 - Fairfield Diagnostic and Urgent Care Center (20)
 - Civil Aviation Authority of the Philippines - Panglao thru Rotary Club of Tagbilaran (30)
 - RHU Siquijor (25)
 - RHU Lila (30)
 - RHU Valencia (30)
 - RHU Loay (15)
 - RHU Bilar (50)
 - BISU Bilar Clinic (2)
 - BHW Lower Bonbon Loboc (31)
 - RHU Lobo (70)
 - Cong. Simon G. Toribio Memorial Hospital (40)
 - RHU Carmen (40)
 - RHU Garcia thru Rotary Club of Tagbilaran (10)
 - RHU Jagna (15)
 - RHU Jagna additional thru Rotary Club of Tagbilaran (10)
 - Jagna Fire Station (20)
 - RHU Sierra Bullones (30)
 - RHU Dimiao (25)
 - RHU Valencia (30)
 - RHU Duroo (27)
 - RHU Guindulman (25)
 - RHU Anda (30)
 - RHU Alicia (30)
 - RHU Mabini (25)
 - RHU Ubay (25)
 - RHU 1 and RHU 2 Ubay (30)
 - Dra. Emilio Del Valle Memorial Hospital Ubay (30)
 - RHU Carlos P. Garcia (30)
 - Carlos P. Garcia Municipal Hospital (50)
 - RHU Bien Unido (25)
 - RHU Trinidad (30)
 - RHU Gatafo (25)
 - RHU Batuan (25)
 - RHU Segbayan (30)
 - RHU Talibon (40)
 - Garcia Memorial Provincial Hospital Talibon (50)
 - RHU San Miguel (30)
 - LGU - RHU San Miguel (30)
 - RHU Gatas (25)
 - RHU Ubay (25)
 - RHU Alicia (30)
 - RHU Pilar (30)
 - Candijay Community Hospital (110)
 - Candijay Community Hospital (15)
 - BISU Candijay Clinic (7)
 - RHU Candijay (25)





3D PRINTED ADJUSTABLE FACE MASK BUCKLES



COVID19 SWAB BOOTH

using CNC, Laser Cutter and Print & Cut Machine



COVID19 SWAB PANEL

using CNC, Laser Cutter and Print & Cut Machine



COVID19 SWAB KIOSK

using CNC, Laser Cutter and Print & Cut Machine

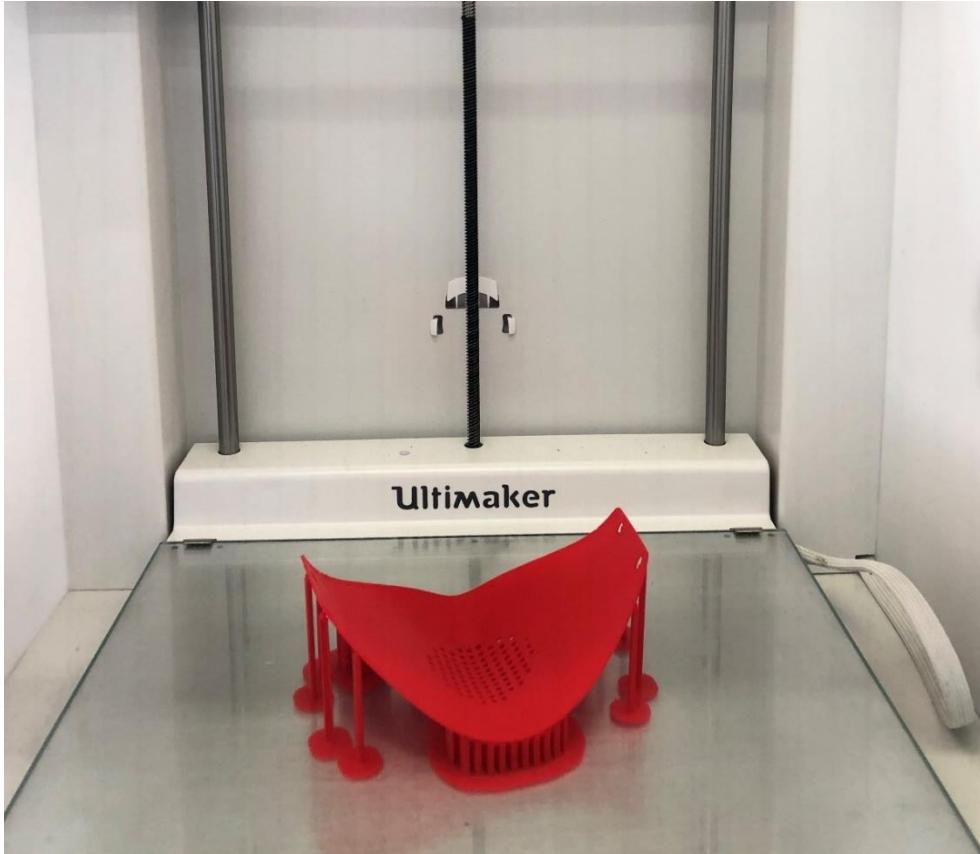
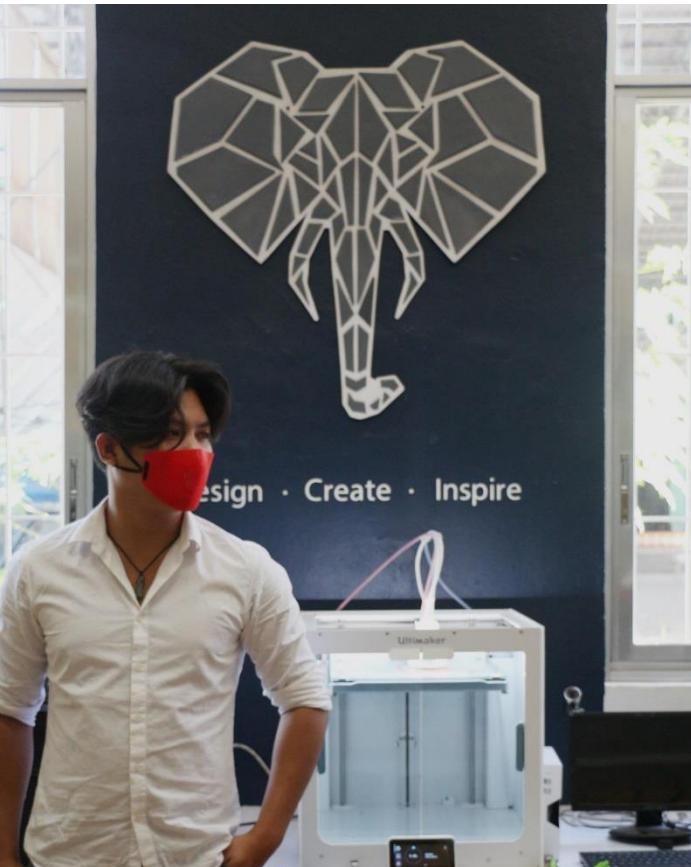




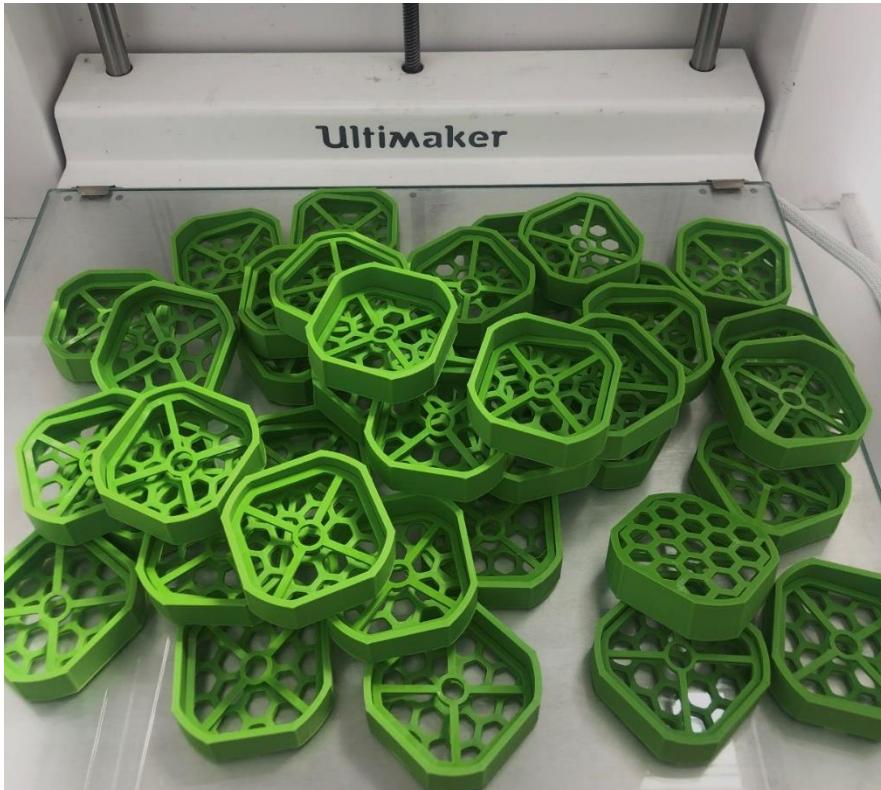
AEROSOL BOX

using Laser Cutter

3D Printed Face Mask



3D Printed 3M 6200 Respiratory mask valve cover



Laser Cut Bag Hook

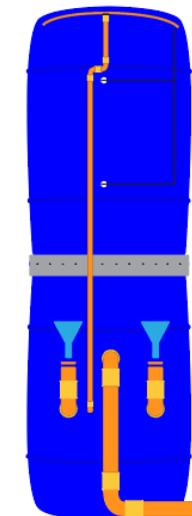
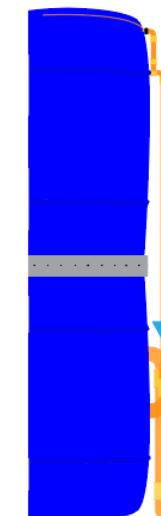
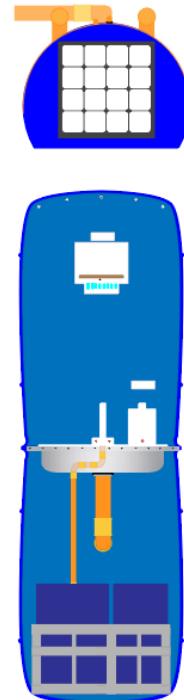
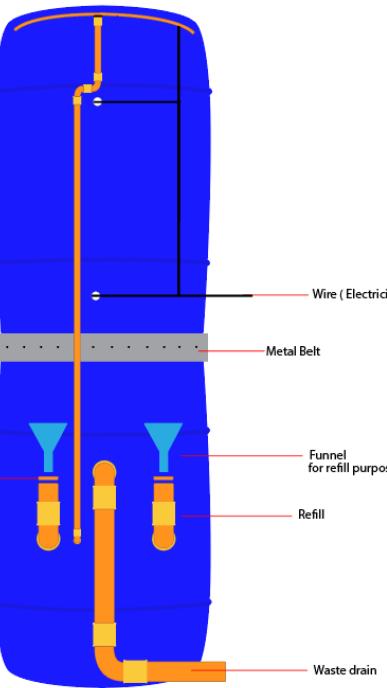
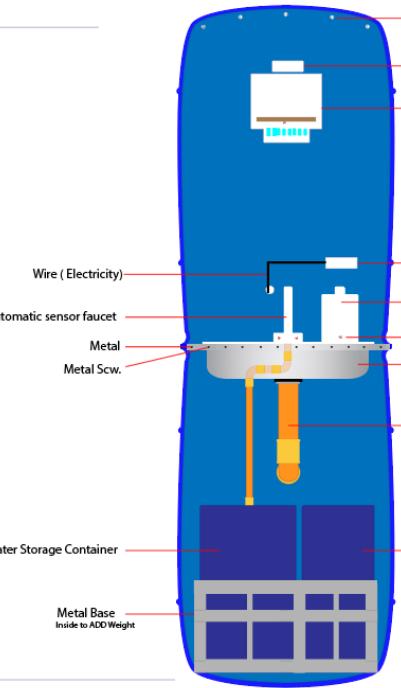




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BOHOL Philippines

6 FT





FABLAB

Consortium brand for local empowerment.

BOHOL Philippines

WE AIM FOR A **SEE** IMPACT

SEE SOCIAL
ECONOMIC
ENVIRONMENTAL



SOCIAL IMPACT



BRINGING PEOPLE TOGETHER IN INNOVATION

ECONOMIC IMPACT



INCREASING PRODUCTIVITY

ENVIRONMENTAL IMPACT



HELPING OUR ENVIRONMENT

SEE

YOU IN FABLAB BOHOL



THANK YOU FOR LISTENING