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Tech Upskill FOR ALL Talents Resumes

Cohort 2025 / Digital Fabrication

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About TechUpskill For All

Tech Upskill For All is a talent detection and capacity-building component under **APII for All (Access International Partnership in IT)**, a partnership between the **Rwanda ICT Chamber** and the **German IT Association, Bundesverband IT-Mittelstand e.V. (BITMi)**. It aims to create awareness, build interest in digital careers, and identify promising tech talents and innovators across Rwanda.

The 2025 cohort marks the first implementation under APII for All, with a strong emphasis on inclusion of women, persons with disabilities, and youth from underserved communities, ensuring equitable access to digital skills and innovation opportunities.

Within this framework, FabLab Rwanda leads the hardware innovation component, equipping participants with practical skills in computer-aided design and manufacturing (CAD/CAM) and other Fourth Industrial Revolution technologies. Participants are supported to design, prototype, and develop innovative, market-ready products using modern fabrication tools.

Graduates of the Tech Upskill component form a pool of skilled innovators, and employers and partners can access the alumni to identify potential talent for internships, freelance opportunities, or employment, supporting both workforce development and innovation in Rwanda's tech ecosystem.



MUGISHA Moise

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/ Electronics and Telecommunication Engineering

Project worked on

MECHA-ENERGY : This project develops a piezoelectric footstep-powered energy system that uses 20 piezo discs and a boost converter to turn human steps into usable electricity, storing the generated power in a battery to run small devices like LEDs and sensors.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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KWIHANGANA Jean Marc

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/ Electronics and Telecommunication Engineering

Project worked on

Affordable Smart Energy Meter with Real-Time Monitoring and Alerts : This project proposes an innovative, IoT-based smart energy meter designed to address critical electricity monitoring and consumption challenges in Rwanda and other developing regions.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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MANZI Intime

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/ Mechatronics engineering

Project worked on

MECHA-ENERGY : This project develops a piezoelectric footstep-powered energy system that uses 20 piezo discs and a boost converter to turn human steps into usable electricity, storing the generated power in a battery to run small devices like LEDs and sensors.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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NIYOMWUNGELI Chaloom

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/ computer science

Project worked on

GREENPARK RWANDA 360 : it is a smart, eco-efficient parking system that reduces congestion by using automated license-plate recognition, real-time slot detection, and digital payments. It delivers fast, secure parking while supporting Rwanda's smart-city vision with a modern, sustainable solution.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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IRADUKUNDA Fabrice

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/ Land survey

Project worked on

MECHA-ENERGY : This project develops a piezoelectric footstep-powered energy system that uses 20 piezo discs and a boost converter to turn human steps into usable electricity, storing the generated power in a battery to run small devices like LEDs and sensors.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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TUYISENGE HERITIER

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/ Agriculture and Animal science

Project worked on

Aquaponic : aquaponic is the smart agricultural project that combine both plants and fish rearing by recycling water from fish to plant to improve both fish production and plant production

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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VUGUZIGA Nadimu

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/ psychology

Project worked on

GreenPark Rwanda 360: it is a smart, eco-efficient parking system that reduces congestion by using automated license-plate recognition, real-time slot detection, and digital payments. It delivers fast, secure parking while supporting Rwanda's smart-city vision with a modern, sustainable solution.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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GAGA Andy

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/ Construction technology

Project worked on

Mecha energy (p energy): P-Energy is a smart energy-harvesting system that captures pressure, vibration, and mechanical movement and converts it into usable electrical power. It is designed to work on a large scale using integrated modules, enabling spaces like walkways, floors, farms, or machinery areas to generate clean, renewable energy from everyday activity.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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RWAGASORE PATIENCE

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/ Electronics and Telecommunication Engineering

Project worked on

Affordable Smart Energy Meter with Real-Time Monitoring and Alerts : The project develops an affordable IoT-based smart energy meter for households and small businesses. Using PZEM-004T, ESP8266, and sensors, it provides real-time monitoring via a Blynk app with alerts for outages, tampering, and usage, promoting energy efficiency, cost savings, and sustainable electricity management.

Skills Gained

Electronics & Embedded Systems, PCB Design & Fabrication, Electronic Programming & IoT

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INEZA Barakah Hemeste

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/Computer System and Architecture

Project worked on

GreenPark Rwanda 360 : GreenPark Rwanda 360 is a smart, eco-efficient parking system that reduces congestion by using automated license-plate recognition, real-time slot detection, and digital payments. It delivers fast, secure parking while supporting Rwanda's smart-city vision with a modern, sustainable solution.

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TUYISHIME Fiston Cedric

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/Electronics and Telecommunication Engineering

Project worked on

Smart Energy Meter : The project monitors current level of electricity consumption and alerts the user through a mobile app to avoid disappointments.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Electronic Programming & IoT

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ISINGIZWE Ernestine

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/BIT

Project worked on

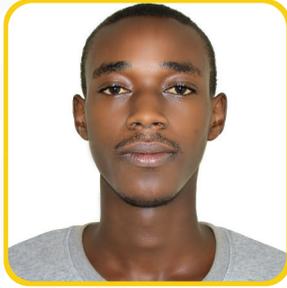
Aquaponic : A fully digital aquaponics system that integrates fish farming and vegetable growing in one sustainable cycle. Fish waste provides natural nutrients for the plants, while the plants filter and purify the water for the fish. The system is monitored and controlled digitally for efficiency, sustainability, and high-quality production.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Electronic Programming & IoT

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MUHIZI Innocent

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/Construction

Project worked on

Affordable smart energy meter with real-time monitoring and alerts: This project creates a low-cost smart energy meter that allows users to see their electricity usage instantly on their phone or computer. It sends alerts, helps prevent energy waste, and includes tamper detection.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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IRAKOZE Chanessa

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/civil engineering

Project worked on

Aquaponic : A fully digital aquaponics system that integrates fish farming and vegetable growing in one sustainable cycle. Fish waste provides natural nutrients for the plants, while the plants filter and purify the water for the fish. The system is monitored and controlled digitally for efficiency, sustainability, and high-quality production.

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NSHIMIYIMANA Gilbert

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/Software Development (SOD)

Project worked on

MECHA-ENERGY: This project develops a piezoelectric footstep-powered energy system that uses 20 piezo discs and a boost converter to turn human steps into usable electricity, storing the generated power in a battery to run small devices like LEDs and sensors.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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KWIHANGANA ENOCK

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/software development

Project worked on

Mecha energy : This project develops a piezoelectric footstep-powered energy system that uses 20 piezo discs and a boost converter to turn human steps into usable electricity, storing the generated power in a battery to run small devices like LEDs and sensors.

Skills Gained

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UWAWE Tresor

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/Mechanical production technology

Project worked on

Green Park Rwanda 360 : GreenPark Rwanda 360 is a smart, eco-friendly parking solution that eases traffic by using license plate recognition, real-time space tracking, and digital payments. It delivers quick, secure parking while advancing Rwanda’s smart-city vision with sustainable innovation.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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JABO HOSANNA BENI DENIVA

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/software development

Project worked on

PARENT GUIDANCE SYSTEM : A system which help to guide childrens on their phone and control their online activities

Skills Gained

3D Printing (Additive Manufacturing), SolidWorks CAD Design, CNC Machining (CNC Router Operation), PCB Design & Fabrication

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UWAWE Tresor

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/Mechanical production technology

Project worked on

Green Park Rwanda 360 : GreenPark Rwanda 360 is a smart, eco-friendly parking solution that eases traffic by using license plate recognition, real-time space tracking, and digital payments. It delivers quick, secure parking while advancing Rwanda’s smart-city vision with sustainable innovation.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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JABO HOSANNA BENI DENIVA

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/software development

Project worked on

PARENT GUIDANCE SYSTEM : A system which help to guide childrens on their phone and control their online activities

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3D Printing (Additive Manufacturing), SolidWorks CAD Design, CNC Machining (CNC Router Operation), PCB Design & Fabrication

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E-mail: benideniva@gmail.com



ISHIMWE Kevin

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/Electronics and Information Engineering

Project worked on

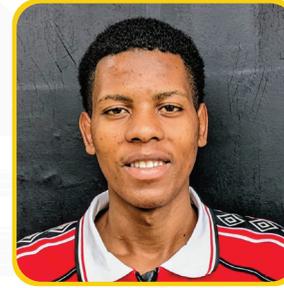
Aquaponic : Aquaponics is a modern farming method that combines raising fish and growing plants in one connected system. Fish waste provides nutrients for the plants, and the plants clean the water for the fish. It's eco-friendly, uses very little water, and produces both vegetables and fish.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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RUTEBUKA Frank

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/Physics-chemistry-biology

Project worked on

Aquaponic : Aquaponics is a modern farming method that combines raising fish and growing plants in one connected system. Fish waste provides nutrients for the plants, and the plants clean the water for the fish. It's eco-friendly, uses very little water, and produces both vegetables and fish.

Skills Gained

3D Printing (Additive Manufacturing), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Electronic Programming & IoT

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MUCYO AIME

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/MECHANICAL ENGINEERING

Project worked on

Aquaponic : Aquaponics is a modern farming method that combines raising fish and growing plants in one connected system. Fish waste provides nutrients for the plants, and the plants clean the water for the fish. It's eco-friendly, uses very little water, and produces both vegetables and fish.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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NIYOKWIZERWA Jehovah-Jireh

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/IT(Information and Technology)

Project worked on

Aquaponic : Aquaponics is a modern farming method that combines raising fish and growing plants in one connected system. Fish waste provides nutrients for the plants, and the plants clean the water for the fish. It's eco-friendly, uses very little water, and produces both vegetables and fish.

Skills Gained

3D Printing (Additive Manufacturing), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Electronic Programming & IoT

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NDAYIZEYE MPINGA Janson

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/Mathematics-Physics-Computer Science

Project worked on

Mecha Energy: This project develops a piezoelectric footstep-powered energy system that uses 20 piezo discs and a boost converter to turn human steps into usable electricity, storing the generated power in a battery to run small devices like LEDs and sensors.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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NSENGIYUMVA Aniceth

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/Economics

Project worked on

Aquaponic : Aquaponics is a modern farming method that combines raising fish and growing plants in one connected system. Fish waste provides nutrients for the plants, and the plants clean the water for the fish. It's eco-friendly, uses very little water, and produces both vegetables and fish.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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MUKANDAYISENGA Rosine

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/Information System

Project worked on

Green-park Rwanda 360: GreenPark Rwanda 360 offers an automated, eco-friendly parking system with smart sensors, ESP32-CAM plate recognition, digital payments, and real-time analytics. Drivers can view available slots, book or pay seamlessly, and access the automated gate after plate verification, providing a secure and user-friendly experience.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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NIYOKWIZERWA Remy

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/Electronics and Telecommunication Engineering

Project worked on

smart energy meter : "This project uses an ESP32, PZM004T module, and LCD to measure and display energy usage. A relay with a lamp load demonstrates automatic control. All components are mounted on a Vero board for stable operation.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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KWIZERA Ignace

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/Business Information Technology

Project worked on

Aquaponic: is a small aquaponic system that combines fish farming and plant growing in one cycle. The fish produce waste that turns into natural nutrients for the plants, and as the plants absorb those nutrients, they clean the water and send it back to the fish tank. Everything runs in a closed loop, so it uses very little water and doesn't need chemical fertilizers.

Skills Gained

3D Printing (Additive Manufacturing), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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AKIMANA Angeline

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/Physics

Project worked on

Mecha-Energy: The project is aimed to explore sustainable energy solutions by converting human movement into electricity.

Skills Gained

3D Printing (Additive Manufacturing), Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Electronic Programming & IoT

Contacts

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E-mail: akimana.angeline@gmail.com



NIYOMUGENGA Marie Claire

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Undergraduate/Electronics and Telecommunication Engineering

Project worked on

Smart Energy Meter: This project builds a Smart Energy Meter using an ESP32 and PZM004T module to measure voltage, current, and power. Readings are shown on a 40x16 LCD, and a 5V relay controls an AC load. It provides a simple, low-cost system for real-time energy monitoring and control chemical fertilizers.

Skills Gained

3D Printing (Additive Manufacturing), CAD Design (2D & 3D Modeling, Assemblies), SolidWorks CAD Design, Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Hardware Integration, Electronic Programming & IoT

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NIYIGENA Olivier

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Secondary School/Mechanical

Project worked on

Aquaponic: is a small aquaponic system that combines fish farming and plant growing in one cycle. The fish produce waste that turns into natural nutrients for the plants, and as the plants absorb those nutrients, they clean the water and send it back to the fish tank. Everything runs in a closed loop, so it uses very little water and doesn't need chemical fertilizers.

Skills Gained

3D Printing (Additive Manufacturing), Laser Cutting, CNC Machining (CNC Router Operation), Electronics & Embedded Systems, PCB Design & Fabrication, Electronic Programming & IoT

Contacts

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UMUBYEYI Ange Melisse

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/Information Systems

Project worked on

Aquaponic: is a small aquaponic system that combines fish farming and plant growing in one cycle. The fish produce waste that turns into natural nutrients for the plants, and as the plants absorb those nutrients, they clean the water and send it back to the fish tank. Everything runs in a closed loop, so it uses very little water and doesn't need chemical fertilizers.

Skills Gained

SolidWorks CAD Design, Electronics & Embedded Systems, PCB Design & Fabrication, Electronic Programming & IoT

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MUTONI Lyse

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/Business and IT

Project worked on

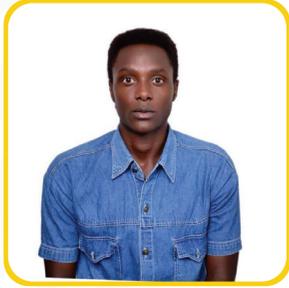
Aquaponic: is a small aquaponic system that combines fish farming and plant growing in one cycle. The fish produce waste that turns into natural nutrients for the plants, and as the plants absorb those nutrients, they clean the water and send it back to the fish tank. Everything runs in a closed loop, so it uses very little water and doesn't need chemical fertilizers.

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NIYIGENA Patrick

Fablab Tech Upskill for all 2025 Cohort Trainee

Highest level of Education

Bachelor's Degree/Civil Engineering

Project worked on

Aquaponic: is a small aquaponic system that combines fish farming and plant growing in one cycle. The fish produce waste that turns into natural nutrients for the plants, and as the plants absorb those nutrients, they clean the water and send it back to the fish tank. Everything runs in a closed loop, so it uses very little water and doesn't need chemical fertilizers.

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