

BS

CONTACT

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CORE SKILLS

Embedded electronics
PCB design
PCB assembly
Industrial design & 3D CAD
Software programming
Basic mechanical engineering
Basic chemistry

PROGRAMMING

C (embedded, register level)
C#
Python
JavaScript
PHP

EMBEDDED SYSTEMS

Microcontroller programming
Communication protocols
NFC and display interfaces

ENERGY & SYSTEMS

Power and water metering
Solar backup, lithium packs
Telecom networks
E-commerce, mobile money

LANGUAGES

French
English
Swahili

Ir. Baraka Safari Elie

Electronics Engineer · Co-founder & CTO, Wava · R&D Lead,
Tujenge Pamoja

Electronics engineer with ten years across telecom, fintech and hardware product design in the DR Congo, Uganda and Burundi. I design and ship devices that work where the grid does not: the first rechargeable clothes iron made in the DRC, prepaid power and water meters, solar backup systems, and today Wava's NFC-based smart water distribution stations. Comfortable from low-level C firmware to field installation and leading the team that builds it.

Professional experience

Wava (Water Value)

Present

Co-founder & Chief Technology Officer

- Architected Wava's smart water point: a station controller managing up to 10 customer terminals, with valve, pump, filter and tank-level control.
- Wrote the terminal firmware in C: prepaid card sessions, decilitre-accurate flow metering, free-pass and inspection cards.
- Built fault tolerance into the field units: reader health checks, offline detection and alert screens.
- Connected stations securely to the backend billing software.

Tujenge Pamoja SPRL — Bujumbura

Present

Research & Innovation Lead · Head of Technical Department

- Lead the R&D pipeline for prepaid power meters, smart water meters and solar backup systems.
- Run the technical department and production workshop, which fabricates and installs signage for corporate clients.
- Oversee design, assembly, installation and after-sales service of the company's electronic products.

Amini SARL — Goma

2020 – Present

Founder & Director

- Launched **Aron** (2022), a rechargeable iron with an internal 12 V lithium battery and 1–2 hours of autonomy depending on heat setting, after two years of study and testing.
- Set up and ran my own electronics lab for design and hand assembly.

Banzela — Goma

2020

Founder & CEO

- Designed **Biron**, the first rechargeable clothes iron made in the DR Congo: 12 V DC, about 3 hours of autonomy, adjustable temperature, after eight months of prototyping.
- Developed a rechargeable cooking stove alongside it as a cleaner alternative to charcoal.

Tresud ASBL

2017 – 2019

Co-founder & Head of ICT

- Built the **banboo.com** e-commerce platform.
- Designed its cross-border payment system, connecting mobile-money services in the DR Congo and Uganda so buyers and sellers could transact across the border.

Huawei Technologies — Uganda

2016

Telecom Engineer

- Worked on mobile network infrastructure projects within Huawei's Uganda operations.

Airtel RDC

2015

Engineering Intern

- Internship in the technical department of a national mobile operator.

Education

Bachelor in Computer Science

2017 – 2019

Cavendish University Uganda — two years, not completed

English language programme

2015 – 2016

Bright and Happy Kampala Adult School — Kampala, Uganda

Industrial Electronics

2009 – 2015

Institut Technique Industriel de Goma (ITIG Don Bosco) — Goma, DR Congo

Selected products

Product	Organisation	Key facts
Wava NFC water terminal	Wava	Card reader and display; prepaid litres per card
Wava station controller	Wava	Up to 10 terminals; valve, pump, tank level
Prepaid power meter	Tujenge Pamoja	Metered consumption with credit-based cut-off
Smart water meter	Tujenge Pamoja	Flow sensing, usage logging, valve control
Solar backup system	Tujenge Pamoja	Solar charging, battery storage, automatic changeover
Aron rechargeable iron	Amini SARL	12 V lithium, 1–2 h autonomy (2022)
Biron rechargeable iron	Banzela	12 V DC, ~3 h autonomy, first made in DRC (2020)
Rechargeable stove	Banzela	Battery-powered cooking for off-grid homes

Press coverage

- **Africanews, 2020** — First made-in-Congo rechargeable iron and rechargeable stove
- **Radio Okapi, 2022** — Interview on the Aron rechargeable iron and Amini SARL
- **7sur7.cd, 2020** — Eight months of prototyping toward home appliances made in the DRC
- **Afrik.com / Afrinik, 2020** — Banzela and the Biron rechargeable iron
- **Kelasi Magazine, 2020** — A Congolese engineer's iron that works without mains power

References available on request.