

Isaac J. Newton

Electronic & Computer Engineer

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PROFILE

Electronic and Computer Engineer (B.Eng., University of Nigeria, Nsukka) working across embedded systems, electronics, backend engineering and full-stack development. I build reliable software and intelligent hardware, design scalable systems, and turn ideas into functional products with real-world impact.

EXPERIENCE

Backend Engineer · IEU Africa Remote · 2025 – Present

- Build and maintain scalable backend services and APIs for modern web applications.
- Implement authentication systems and secure access to platform features.
- Run and maintain cloud-based infrastructure.

Software and Hardware Engineer · OneGrid Energies Remote · 2024 – Present

- Develop embedded and energy-monitoring systems.
- Build and maintain scalable web services.
- Interface hardware components with software platforms.

Chief Technology Officer · Switch Electric Jul 2021 – Present

- Lead technology development across embedded systems and energy solutions.
- Oversee backend infrastructure and product engineering.

Electronic Engineer · Arone Energy 2021 – 2022

- Designed, developed and tested electronic systems and embedded hardware solutions.
- Handled circuit design and microcontroller integration.
- Troubleshoot and debugged electronic systems.

SELECTED PROJECTS

Foot Pressure Measurement Device

A foot pressure measurement device designed in EasyEDA that captures and analyses foot pressure data for healthcare, sports science and gait analysis.

Tech: PCB Design, EasyEDA, Embedded Systems, Sensor Integration, Data Analysis

SoleSense PWA Insole Monitor fluxion9.github.io/solesense/app

A progressive web app that connects to the SoleSense insole over Bluetooth for real-time foot pressure monitoring and analysis.

Tech: PWA Development, Bluetooth, Data Visualization, Sensor Data, Health Tech

OneGrid Energies · Developer onegridenergies.com

Website for a Nigerian clean-energy company focused on renewable energy access, solar installations, recycling innovation and community empowerment.

Tech: Website Development, Frontend Development, Responsive Design, Clean Energy

SKILLS

Languages	C · C++ · Python · JavaScript · PHP · HTML · CSS
Backend & web	Node.js · Express.js · MongoDB · REST APIs · Paystack API · Progressive Web Apps · Responsive Design
Hardware & embedded	Embedded Systems · Hardware / Circuit Design · PCB Design · EasyEDA · Microcontrollers · Sensor Integration · Bluetooth · Internet of Things (IoT)

EDUCATION

Bachelor of Engineering (B.Eng.), Electronic and Computer Engineering Sep 2019 – 2024

University of Nigeria, Nsukka · Nsukka, Nigeria