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NJINIKA PRINCELY NDIPNU

Passport: AB378942 | **Date of birth:** 12/08/1999 | **Place of birth:** Douala, Cameroon | **Nationality:**

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ABOUT ME

I am an Electromechanical Engineer with strong interests in mechanical design, simulation driven engineering, and advanced product development. Certified SOLIDWORKS Professional with experience in CAD modelling, system integration, and engineering prototyping. Passionate about using computational modelling and simulation tools to design efficient and reliable mechanical systems.

EDUCATION AND TRAINING

21/09/2021 – 16/08/2025 Douala, Cameroon

BACHELOR OF ENGINEERING UNIVERSITY OF BUEA (Under the traineeship of University Institute of the Coast, IUC)

Computer-Aided Design (CAD)
Finite Element Analysis
Mechanical System Design
Control Systems and Automation
Mechatronics
Engineering Materials
Thermodynamics
Product Development and Project Management

Website https://myiuc.com | **Field of study** Electromechanical Engineering | **Final grade** 3.61CGPA | **Level in EQF** EQF level 6 |

Type of credits SCH and Quarter credits | **Number of credits** 274 |

Thesis Design, simulation and fabrication of a semi automated bar soap production line for SMEs in Cameroon

04/09/2017 – 18/08/2018 Douala, Cameroon

TECHNICIAN DIPLOMA CETI BILINGUAL NGUEUGA

Field of study Sheetmetal and metallic construction | **Level in EQF** EQF level 4

12/09/2014 – 20/08/2015 Douala, Cameroon

CERTIFICATE OF PROFESSIONAL APTITUDE CETI BILINGUAL NGUEUGA

Field of study Sheetmetal work | **Level in EQF** EQF level 3

WORK EXPERIENCE

JUNIOR ELECTROMECHANICAL ENGINEER – INSTITUT UNVERSITAIRE DE LA COTE (IUC) – 01/08/2024 – Current – DOUALA, CAMEROON

- Supported research and prototyping activities in the fabrication laboratory.
- Assisted students and researchers with **CAD modelling and engineering simulations**.
- Participated in mechanical design optimization and prototype fabrication.
- Contributed to multidisciplinary innovation projects and laboratory research activities.

DESIGN ENGINEER INTERN – NET ENGINEERING – 10/07/2023 – 11/09/2023 – DOUALA, CAMEROON

- maintenance of equipment.
- Design and fabrication of a palm kernel shell crusher for the production of composite material for floor tiles, **construction Project.**

MECHANICAL INTERN – DANGOTE CEMENT CAMEROON – 12/07/2022 – 11/09/2022 – DOUALA, CAMEROON

- Assisted with equipment monitoring and preventive maintenance.
- Observed industrial mechanical systems and reliability practices.

PIPE FITTER/BOILER MAKER – SMS CAMEROUN – 20/06/2021 – 29/09/2021 – DOUALA, CAMEROON

- Piping on Hotel & Alpha Platforms; **ADDAX PETROLEUM Project.**
- Construction of ESSEC Steel Frame; **University of Douala Project.**

PIPE FITTER/BOILER MAKER – NET ENGINEERING – 19/09/2019 – 23/10/2020 – DOUALA, CAMEROON

- Construction and installation of a Metallic Roof Trust.
- Construction and installation of a Metallic Office G+1.
- Construction and installation of an Industrial Mixer.

PIPE FITTER/BOILER MAKER – SMS CAMEROUN – 06/03/2019 – 27/07/2019 – DOUALA, CAMEROON

- Construction of Metallic Platform Extension; **SONARA** ***(Société Nationale de Raffinage)*** **Project.**
- Construction of Risers and Pipe Clamps; **PERENCO** ***(Perrodo Energy Company)*** **Project.**

PROJECTS

15/09/2024 – 06/06/2025

Design and fabrication of a semi automated soap production line for SMEs in Cameroon

- Designed and developed a **control motherboard and automation architecture** for a semi-automated production line.
- Created mechanical components and system layouts using CAD tools.
- Integrated mechanical, electrical, and control subsystems.
- Applied engineering analysis to improve efficiency and reliability.
- Project received **national recognition and innovation awards**.

12/02/2025 – 13/09/2025

Design and Realization of a Cocoa Dryer (Charcoal Heat Source)

- Designed and built a **cost-effective cocoa dryer** to improve post-harvest drying for local farmers.
- Used **charcoal as an affordable and accessible heat source**, reducing drying time compared to sun drying.
- Applied **heat transfer and mechanical design principles** to improve drying efficiency and product quality.
- Built with **locally sourced materials** to ensure affordability, durability, and ease of use.

10/06/2024 – 12/09/2024

Design and Fabrication of an Advanced Electronic Direct Online (DOL) AC Motor Starter

This project involved the end to end design and fabrication of a robust electronic motor starting solution to address the operational challenges faced by industrial equipment in environments with unstable electrical supply to protect the motors from overload.

09/08/2024 – 16/10/2024

Design and Fabrication of a Corn Shelling Machine

Designed and fabricated a corn shelling machine to automate grain separation, significantly improving processing efficiency and supporting local agricultural productivity.

15/05/2022 – 18/06/2022

Design and Fabrication of an Electric Hoist

Designed and fabricated an electric hoist with enhanced safety mechanisms and increased load-handling capacity, improving reliability and operational safety for lifting applications.

HONOURS AND AWARDS

16/07/2025

1st Prize for Innovations from the Littoral Region. – Ministry of Scientific Research and Innovation (MINRESI) of Cameroon.

This is an **official certificate of achievement and recognition** issued by the Republic of Cameroon to honor excellence in applied technological innovation. The award was presented during the **9th Edition of the Week of Excellence in Scientific Research and Innovation in Cameroon (JERSIC 2025)**. This is a major national event designed to showcase and reward the best scientific and technological work in the country.

SKILLS

Engineering Design & Technical Skills

Working knowledge of piping elements, piping calculations, and design of piping connections. | Mechanical design expertise. | Ability to design, simulate, and analyze models. | Electronic board design. | CNC plasma and router control. | plc programming in siemens

Technical Interpretation & Drafting

Dependable, easily adaptable to change. | Ability to read and understand mechanical drawings.

Interpersonal & Professional Skills

Good communicator. | Proven team player, with experience as an active member of youth associations. | Able to work effectively under pressure.

Industry-Specific Knowledge

Capacity for quick adaptation. | Familiar with the oil and gas industry. | Ability to read and understand electrical and electronic schematics.

DIGITAL SKILLS

MS PowerPoint | Proteus | SolidWorks | AutoCAD | MatLab | MS Excel | MS Word | EasyEDA | MS Project

CERTIFICATIONS

Microsoft, 18/02/2023

Microsoft Office Specialist (MOS) Excel Certification

Mode of learning: Project based

Microsoft, 01/05/2022

Microsoft Office Specialist (MOS) PowerPoint Certification

Mode of learning: Project based

National Maritime Authorities & Coast Guards, 18/06/2021

SEA SURVIVAL

Mode of learning: Blended

OPITO, 17/06/2021

International Minimum Industry Safety Training (IMIST)

Mode of learning: Online

SOLIDWORKS, 10/12/2025

Certified SOLIDWORKS Associate

Mode of learning: Blended

SOLIDWORKS, 11/12/2025

Certified SOLIDWORKS Professional

Mode of learning: Blended

SOLIDWORKS, 28/12/2025

Certified SOLIDWORKS Sheet metal Professional

Mode of learning: Blended

SOLIDWORKS, 29/12/2025

Certified SOLIDWORKS Weldments Professional

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Mode of learning: Blended

LANGUAGE SKILLS

Mother tongue(s): **MUNGAKA**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2
FRENCH	B2	B1	B1	B1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

HOBBIES AND INTERESTS

Designing

Sport

Traveling

ACHIEVEMENTS

06/07/2025 – CURRENT

Member of the Cameroon National order of Mechanical Engineers

The **National Order of Mechanical Engineering in Cameroon** (Ordre National des Ingénieurs Mécaniciens du Cameroun) is the official professional regulatory body for mechanical engineers in the country. Its primary purpose is to oversee the profession, ensure ethical standards, and promote the development of mechanical engineering for the nation's benefit.