



HENRI CHRISTIAN JUNIOR
TSOUNGUI OBAMA

ELECTROMECHANICAL DESIGN ENGINEER

PROFILE

Electromechanical Engineer and Mathematician with passion for robotics. I am proficient at designing, prototyping, and manufacturing Electromechanical systems/products. I have a good understanding of complex systems in a transdisciplinary context, a mastery of mathematical/computational tools, and ability to program in Python, MATLAB, R, and Julia. I am proactive, self-motivated, fast learner, and can work under high pressure.

CONTACT

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SKILLS

CAD/CAE	95%
Prototyping	90%
PLC	85%
ROS1 & 2	85%
PYTHON	85%
MATLAB	80%

EDUCATION

African Institute for Mathematical Sciences (AIMS) – Structured Master's Degree in Mathematical Sciences

2018 - 2019

GPA: 4.0 Coursework summary: Mathematical problem solving, statistics problem solving, Mathematical modelling of dynamic systems, Data Science, Advanced data analysis and simulation techniques, Stochastic Analysis.

Institut Supérieur de Technologies (IST) – Master of Engineering in Electromechanical Engineering (Dual Master's degree)

2018 - 2019

GPA: 4.0 Coursework summary: PLC, Production line technology, Sampled-data systems, Composite and plastics materials, Manufacturing.

Faculté de Génie Industriel de Douala (FGI) – Master of Sciences in Electromechanical Engineering (Dual Master's degree)

2017 - 2018

GPA: 4.0 Coursework summary: PLC, Production line technology, Sampled-data systems, Composite and plastics materials, Manufacturing.

WORK EXPERIENCE

Hochschule Mittweida – Research Assistant

October 2019 - Present

Designed mathematical models for monitoring of infectious diseases, i.e., Malaria and COVID19. Co-authored 3 papers published and 1 in peer-review in *Plos One* and 1 published in *Experimental Biology and Medicine*.

Ecole d'Ingénierie Industrielle de Bangangte – Electromechanical Engineering Intern

March 2018 - August 2018

Designed an automated fruit juice press using Solidworks and manufactured the press from recycled scrap material. The thesis is available on ResearchGate.

Les Taless-SIEMEF – Electromechanical Engineering Intern

August 2016 - October 2016

Worked with the lead engineer of the team in the restauration of a Cocoa oil press. I also participated in the manufacturing tasks.

PROJECTS

Project 1: Autonomous mobile robot

November 2021 - Present

Designed, assembled and currently programming a ROS2 (Robot Operating System)-based mobile robot capable of navigating autonomously in an environment using Simultaneous Localization and Mapping (SLAM) techniques.

HOBBIES

- Reading science fiction books
- Playing Football
- Mountain biking