

# Timoh William Chick

✉ wtimoh@ymail.com ☎ +237 677 536 586/+237681756393

🌐 [linkedin.com/in/william-timoh](https://www.linkedin.com/in/william-timoh) 🐙 [github.com/william-timoh](https://github.com/william-timoh) 🌐 [william-timoh.vercel.app](https://william-timoh.vercel.app)

## Research Vision

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**PhD Objective:** Engineer **AI-driven, 3-D-printed-Advanced manufacturing, solar-powered mechatronic systems** that fuse **reinforcement learning path-planning, advanced materials, Industry 4.0 sensors**, and **renewable energy** to deliver **sub-centimetre precision agriculture** and scalable autonomous and **maritime robotics**.

**Deliverables:** 3 IEEE RA-L papers + open-source ROS2 package + Kongsberg & field-trial data.

## Education

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<b>MSc Mechatronics Engineering (Expected 2026)</b> ColTech College of Technology, University of Buea <i>Current Research: Digital Twin Framework for AI-Optimized Cocoa Harvesting with Field Validation of Robotic Harvesting in Tropical Farms</i>	<b>2025–2026</b>
<b>Higher Diploma Marine Engineering (Hons)</b> Regional Maritime University Ghana <b>GPA 4.0/4.0 • Best Student Award</b>	<b>2014–2016</b>
<b>MEng Industrial &amp; Production Engineering</b> ENSAI, University of Ngaoundere • GPA 3.38/4.0	<b>2009–2012</b>
<b>Higher Diploma Mechanical &amp; Industrial Automation</b> IUT Douala • GPA 3.0/4.0	<b>2006–2008</b>

## Certifications (Awarded)

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- 2022:** Research/Practical Training Proficiency (Kumaraguru College of Technology India)
- 2020:** Certificate of Proficiency – GUNT Hamburg
- 2020:** Material Testing Proficiency (Zwick/Roell)
- 2020:** EMCO Training (CT260, FB450, Siemens 828D)
- 2016:** Cadet-ship Training + Fire-Fighting & Survival at Sea (RMU)

## Publications in Progress

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1. Modeling Intelligent Robotic Systems for Autonomous Infrastructure Inspection (IEEE RA-L, under review)
2. AI-Driven Autonomous Machining Sequence Optimization for Smart Manufacturing (arXiv)

## Professional & Research Experience

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### Head of Mechanical Engineering Laboratory

2019–Present

PKFokam University Institute of Excellence, Cameroon

Commissioned **\$250k Africa-first** CNC EMCO/FB lab; **200+ students** trained, **\$2.5M Equipment's-budgets** managed

Supervised **12 capstone projects** in robotics, additive manufacturing, and sustainable engineering

Taught 200+ students: CNC, Robotics, 3D Printing, Manufacturing Automation, Engineering Materials, Metrology

### Project Engineer (BIM & Simulation)

2018–2019

Wally Construction, Cameroon

**Project Leadership role** was from procurement to operation follow-ups, maintenance and contractors and subcontract evaluations

Reduced **design-to-fabrication time by 18%** via SolidWorks-BIM workflows

Led **5 multidisciplinary teams (30 people)**; managed project budgets and schedules

**Cost Saving and Efficiency** (Function, Assembly, Quality, Environment, Health, Time,)/ SHEQ Compliance

### CAD/CFD Engineer (Freelance)

2016–2018

DESSIMINTEL Ghana

Design and Simulation of a Six Z equipment for the production small scale Equipment wire KERSL Ghana 2017 Ghana,

Design and development of Seaweld equipment's for offshore purpose for STANDCODE Ghana

Designed **auto-gutter evacuator** showcased at **DAAD Falling Walls Lab**

### Performance Engineer

2011–2012

Cameroon Railway (CAMRAIL)

Optimized CC 2200 locomotives via flash-memory systems and predictive maintenance.

## Core Competences

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**Mechatronics & Control Systems** – AI-driven design of autonomous robots, feedback control, sensor fusion

**AI/ML & Autonomous Systems** – TensorFlow, PyTorch, ROS2, Reinforcement Learning, 450+ GitHub commits

**Additive Manufacturing & 3-D Printing** – EMCO CT260, Siemens 828D, rapid prototyping, advanced materials

**Sustainable Engineering & Renewable Energy** – Solar-powered edge computing, energy-efficient actuators

**Industry 4.0 & Smart Manufacturing** – CMMS, Lean Six Sigma, predictive maintenance, digital twins

**Computational Mechanics & Simulation** – ANSYS, COMSOL, CFD, FEA, MATLAB, LabVIEW

## Leadership & Outreach

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**NGO:** Founder, Sentinel Tech – trained 240 youths in 3-D printing & CNC

**University:** Founder, Computational Engineering Design Club (RMU) – 240 members

## Honours & Awards

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**2016:** Best Student – Marine Engineering, Regional Maritime University

**2024:** Featured Speaker – 8th PKFokam Science & Technology Conference

## References

**Dr. Samuel Ratna Kumar**

Head, Mechanical Engineering  
Kumaraguru College of Technology  
*samuelratnakumar.ps.mec@kct.ac.in*  
+91 98425 51959

**Dr. Seranthian Ramanathan**

Assistant Professor, Mechanical  
Engineering Kumaraguru College of  
Technology  
*ramanathan.s.mec@kct.ac.in*  
+91 8754933907

**Prof. Mathias Fru Fonteh**

Management of Water Resources  
Tel: (+237)677760863  
Email: *matfonte@yahoo.com*  
Former Director of COLTECH  
University of Buea  
/ Present University of Nchang

**Mr. Ndach Thierry**

Service Engineer, SIEMENS SA/NV  
Belgium Guido Gezellestraat123,  
University of Bertoua  
*ndach\_thierry@yahoo.com*  
*thierry\_ndoh.ndach@siemens.com*  
+32 466 186 902 / +237 691 499 818