

# Timoh William Chick

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## 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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**MSc Mechatronics Engineering (Expected 2026)** 2025–2026

ColTech College of Technology, University of Buea

*Current Research: Digital Twin Framework for AI-Optimized Cocoa Harvesting with Field Validation of Robotic Harvesting in Tropical Farms*

**Higher Diploma Marine Engineering (Hons)** 2014–2016

Regional Maritime University Ghana **GPA 3.68/4.0** • Best Student Award

**MEng Industrial & Production Engineering** 2009–2012

ENSAI, University of Ngaoundere • GPA 3.38/4.0

**Associate Degree in Mechanical Engineering & Industrial Automation** 2006–2008

IUT Douala • GPA 3.0/4.0

**Advanced Level (Technician's Certificate) Maintenance of Electro-Mechanical Eqments** 2003–2006

**General Certificate of Education (5 papers)** GTHS Bamenda • GPA 3.0/4.0

## 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)

## 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)

2017–2019

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)

2016–2017

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, practical knowledge 50+ GitHub Skills

**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

**OS and Programming:** C, C++, python, Arduino, Window, Ubuntu, Schemaplic, Proteus, Embedded Systems Programming

**Project Management:** Primavera P6, Microsoft Project, Microsoft Word, Excel, Access, Lean Six Sigma

**CAD/CAM:** SolidWorks, Siemens NX, Autodesk Inventor, AutoCAD, Autodesk 360, 3ds Max

**Automation:** Siemens PLC, Allen Bradley PLC, Micro Controller, IoT Platforms,

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

## Leadership & Outreach

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**NGO:** Founder, **Sentinel Tech** – trained 20 youths in AI POWERED application in Professional hand-on skills in Cameroon

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

**Community Preservation:** Lead a committee of youth and participated in the cleaning of street in Douala

Leading and Group call **LEAD ENGINEERING HUB** where startup in IT and AI are Enhance  
**Principal Patron** groups students Clubs in Cameroon and Ghana

## 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  
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### **Dr. Seranthian Ramanathan**

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Former Director of COLTECH  
University of Buea  
/ Present University of Nchang

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