

Timoh William Chick

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Research Vision

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

MSc Mechatronics Engineering (Expected 2026) 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>	2025–2026
Higher Diploma Marine Engineering (Hons) Regional Maritime University Ghana GPA 4.0/4.0 • Best Student Award	2014–2016
MEng Industrial & Production Engineering ENSAI, University of Ngaoundere • GPA 3.38/4.0	2009–2012
Associate Degree in Mechanical Engineering & Industrial Automation IUT Douala • GPA 3.0/4.0	2006–2008

Certifications (Awarded)

- 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

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

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

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

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

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

Honours & Awards

2016: Best Student – Marine Engineering, Regional Maritime University

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

References

Dr. Samuel Ratna Kumar

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