Contact

+256780313318 (Mobile)
masuba.aaron@g.bracu.ac.bd

www.linkedin.com/in/aaron-masuba-780313318 (LinkedIn)

Top Skills

University Teaching
Presentation Skills
Visual Communication

Certifications

Introducing oneAPI: A Unified Cross-Architecture Performance Programming Model
Renewable Electric Systems
Solar Energy Codes, Permitting and Zoning
Intel DevCloud
Utility Applications of Power Electronics

Aaron Masuba

Education, Environment, Engineering, Science and Technology
Kampala, Central Region, Uganda

Summary

Just As I am
Innovator, Entrepreneur, Philanthropist & Climate Activist

Experience

Intel Corporation
Intel Student Ambassador
September 2022 - Present (4 months)
Santa Clara County, California, United States

Aaron is developing the Applied Machine Learning and Industrial IoT (AMLIIoT) Architecture. This is a state-of-the-art system control suite based on intelligent edge electronic devices and sensor fusion for machine learning applications in industrial processes, automation, and diagnostics. He uses Intel® FPGA high-performance computing (HPC) applications to accelerate and scale operations. Aaron hopes to solve some of the world's most pressing challenges such as access to efficient, sustainable carbon-neutral energy and other control system applications where optimization is required through the Intel oneAPI and AMLIIoT Architecture.

Engineering Change Lab - USA
Change Leader
June 2022 - Present (7 months)
Omaha, Nebraska, United States

Engineering Change Lab-USA (ECL-USA) is a catalyst for change within the engineering community, helping it reach its highest potential on behalf of society

Who We Are

The Engineering Change Lab-USA (ECL-USA) is a social change lab founded in 2017 that seeks to connect, share information, and collaborate with individuals and stakeholder groups within the engineering community. We are explorers and change leaders from across the engineering community, committed to unlocking the full potential of engineering for the benefit of society.

ECL-USA convenes two or three times a year to share perspectives, deepen our understanding of engineering's emerging future, and to launch experiments and focused initiatives designed both to foster change in the entire engineering system. Learn more about our focused initiatives here.

Our approach is to network with established organizations that serve the engineering community without duplicating change efforts that may be already underway within those groups. We also have a close alliance with the Engineering Change Lab – Canada, which led the way with a similar initiative in Canada beginning in 2014.

Our Way Forward
Our way forward is through action inspired by the Engineering Change Lab-USA's mission. ECL-USA was started in 2017, with the mission of becoming a catalyst for change within the engineering profession, by helping the profession reach its highest potential on behalf of society.

To achieve our mission, we will:
Bring together stakeholders, innovative thinkers, and change agents to explore and generate new knowledge about the role of engineering in an emerging future.
Self-organize as an independent (non-aligned) entity – complementing existing stakeholder organizations (professional societies and associations), not attempting to duplicate their efforts.
Become a communications hub, linking and sharing knowledge between stakeholders engaged.
Engage in and lead collaborative initiatives.

Engineering for One Planet
Engineering Education Stakeholder (EOP-ABET)
May 2022 - Present (8 months)
United States

A global effort to accelerate environmentally sustainable engineering
ABOUT EOP
VISION
Engineering for One Planet (EOP) is a global initiative working to equip all future engineers across all disciplines with the fundamental skills and principles of environmental sustainability.
All engineers will be equipped to design, build, code and invent with the planet in mind.

Mobilized by The Lemelson Foundation and VentureWell with input from hundreds of stakeholders across sectors, the EOP initiative seeks to create systemic change by establishing environmentally sustainable engineering as a core tenet of the profession. To achieve this, the initiative provides a roadmap for integrating fundamental principles of sustainability into engineering education to support the health of the planet and the lives it sustains.

THE CHALLENGE

Engineering education must cultivate engineers and inventors who design and build for the smallest environmental footprint possible.

Engineers have outsized impact on the world. From new products to new buildings and modes of transportation, an engineer's decisions regarding design, source materials, production, distribution, and disposal can make a difference on whether their work contributes to or mitigates environmental impact. However, most engineering students are not equipped to apply the core principles of sustainable design and environmental responsibility.

THE OPPORTUNITY

More than ever, there is increasing demand and collective will to transform the engineering profession to address environmental sustainability.

Students, professionals, educators, consumers, corporations and governments around the world are demanding greater responsiveness to planetary protection. Organizations like the Accreditation Board for Engineering and Technology (ABET) and professional engineering associations are highlighting the need to accelerate the integration of competencies of environmental sustainability across engineering education.

ElectricSynch

Chief Executive

April 2022 - Present (9 months)

Global

ElectricSynch is rewriting the story of access to sustainable, reliable and efficient electric energy through digital transformation.

Fighting energy poverty requires resilient actions to increase access to modern technological solutions.

At ElectricSynch, we are increasing access to energy for sustainability.

K4T LAB

1 year 8 months

Principal

December 2021 - Present (1 year 1 month)

Interim Chief Technology Officer
May 2021 - December 2021 (8 months)
United States, United Kingdom, Netherlands, Canada, Sweden, Switzerland

Technology to make lives better

Saratec Ventures (SaVe)
Founding Partner
May 2022 - Present (8 months)

SaVe applies data analytics, AI, and IoT Platform to connect structures. We look forward to retrofitting existing infrastructures to create eco-friendly smart zones for livable cities and communities.

KasanaShare
Founder and Chairperson
January 2019 - Present (4 years)

Clivi-Scope AI
Innovation Lead
March 2021 - Present (1 year 10 months)

PROJECT LUNGENIA
Researcher
July 2021 - Present (1 year 6 months)
United States

Committee of East African Rehabilitation & Rural Advancement
Founding President
January 2019 - Present (4 years)

AFROSOLTECH INDUSTRIES LTD
Executive
February 2022 - Present (11 months)
Kampala, Uganda

Clinton Global Initiative
9 months

Fellow C'22
March 2022 - November 2022 (9 months)
Washington, United States

Scholar & Commitment Maker C'22

March 2022 - November 2022 (9 months)
Washington, United States

Dear Aaron,

Congratulations! On behalf of everyone here at the Clinton Global Initiative University (CGI U) and the Clinton Foundation, I am so pleased to inform you that you have been selected to join the CGI U community.

In addition to having access to a comprehensive Commitment to Action curriculum, personalized mentorship, funding streams, and Clinton Foundation topic experts, you are invited to our CGI U virtual annual meeting, which will be hosted in partnership with the American Association of Community Colleges from April 11 – 13, 2022.

Through your application, you've demonstrated a clear commitment to improving the world around you, and I'm thrilled to welcome you to a growing community of more than 11,000 student leaders and entrepreneurs. We are excited to welcome you to the CGI U community and look forward to an inspiring year ahead!

Keep up the great work and we'll see you in April!
#CGIU2022!

Paderborn University

Guest Lecturer

September 2022 - September 2022 (1 month)
Paderborn, North Rhine-Westphalia, Germany

I presented the AMLIIoT Architecture for Sustainable, Scalable, and Realtime Microgrid Systems Control and Coordination to the Graduate Training for Sustainable Energy Development 2022 at Paderborn University, Germany on 6th September 2022 from 11:00 am to 11:55 am EAT during the weeklong training by A: RT-D Grids and ECOLOG. I focused on making Microgrid systems control and coordination sustainable, scalable, and real-time in the study that demystified a sustainable, scalable Architecture and Control Suite based on state-of-the-art smart edge intelligent systems for effectively coordinated real-time Microgrid and Distribution grid energy management. The "AMLIIoT Architecture - Applied Machine Learning and the Industrial Internet of Things"

FXB International

Climate Innovation Advocate
January 2022 - May 2022 (5 months)
New York, United States

United Nations Academic Impact
United Nations Academic Impact Fellow
August 2021 - January 2022 (6 months)

TEDx BRACU
Guest Speaker
December 2021 - December 2021 (1 month)
Dhaka, Bangladesh

Notes on Climate Change and Action.

Millennium Campus Network (MCN)
Millennium Fellow
August 2021 - December 2021 (5 months)

Melton Foundation
Innovator
March 2021 - April 2021 (2 months)
India

Global Citizenship Ideation

Bangladesh Youth Leadership Center (BYLC)
Delegate
February 2021 - March 2021 (2 months)
Bangladesh

Education

BRAC University
Bachelor of Science - BSc, Electrical and Electronic Engineering · (July 2020 - November 2024)

University at Buffalo
Certified Specialization in Solar Engineering, Solar Energy for Engineers, Architects and Code Inspectors · (March 2022 - June 2022)

University of Virginia

Certificate in Innovations with Business Model canvas, Innovations with Business Model Canva · (2021 - 2021)

Duke University

Certified Diploma in Machine Learning, Artificial Intelligence and Deep Learning · (2021 - 2021)

Cognitive Class

Project, Deployment of a Serverless App for Image Processing · (2021 - 2021)