

Ngalula Sandrine Mubenga is a Professional Engineer registered in Ohio, USA. Mubenga is passionate about finding renewable energy solutions so that people can better their lives while fighting climate change in both developed and developing nations. She has worked in the industry for 15 years during which she designed/interconnected/approved about 50MW of solar PV and worked on distribution system planning and protection.

As an entrepreneur, her renewable energy experience in the industry led her to create SMIN Power Group, a company specialized in the design and installation of solar PV systems. In 2011, the company was registered in the USA, and two years later, opened an office in Kinshasa, D.R.Congo, in Africa.

Since 2012, Mubenga has been working as Electrical Engineering Manager at the University of Toledo where she helps manage a yearly \$15 million budget. Under her leadership, her team has saved over \$4.2 million in utility costs and with her colleagues, she started the Sustainability Energy Efficiency and Design Initiative. She has also served as Project Manager for \$ 7 million worth of construction projects.

Mubenga has been an active member of IEEE for over 8 years. In 2010, she started and chaired the Toledo Section IEEE Graduate Of the Last Decade Group-now known as the Toledo Young Professionals. In the process, she was named 2010 IEEE-Toledo Young Engineer of the year. She has also authored research papers that she presented at the PES GM2011 and 2015 IEEE ICRERA. Mubenga is currently serving as the general co-chair for the 2017 IEEE PES PowerAfrica conference that will be held in Ghana from June 25 to June 30.

Academically, Mubenga is currently a PhD candidate in Electrical Engineering at the University of Toledo where she also earned both her Bachelor and Master degrees with honors. For her master research thesis, she hybridized an electric vehicle by integrating a fuel cell to it and she developed a solar powered hydrogen generating station. For her PhD research, she is developing a battery management system for large Li-ion batteries energy storage which are used in electric vehicles and grid applications. Mubenga also served as the Entrepreneurial Lead for the Icorps@Ohio program and helped her team earn a research grant.

She was invited by the European Parliament S&D Group, to be a panelist during 2015 Africa Week. She has served as keynote speaker at the 27th Annual Energy Fair in Wisconsin, USA and at the 2nd Sultani Makutano business networking event in Kinshasa, DRC. She has been featured in AMINA, Forbes Afrique, JeuneAfrique, the Toledo Blade, the Portage County Gazette, Afrimpact, and has appeared on television on France24, Congo WebTV, RTNC, and b-one.