

Authors' Biographies



Rumbidzai Prosper Jera was born in Harare, Zimbabwe in 1994. She is currently a student at the University of Zimbabwe, Harare, studying for a Bachelor of Science Honors Degree in Mechanical Engineering. She did her Advanced and Ordinary level studies at St Mary's High School in Chitungwiza, Harare, where she was involved in a number of engineering and science programs. In the year 2011, she was the secretary for the Science Education in Teacher Training (SEITT) school science club, and later on went to hold the vice-presidency for the club in the years 2012-2013. In 2016, she joined the Zimbabwe Institute of Engineers as a student member. Her current research involves material science, solid mechanics and Finite Element Analysis. Other areas of interest in research and design include aerodynamics, fluid mechanics and manufacturing and engineering management systems.



Doctor Tawanda Mushiri received his Bachelor of Science Honors Degree in Mechanical Engineering (2004-2008) and a Masters (2011-2012) from the University of Zimbabwe, Harare, and a Ph.D. from the University of Johannesburg, South Africa (2013-2017). He also obtained a Certificate with Siemens in Programmable Logic Controllers in the year 2013 where he worked with Scada and Link Programming. His doctorate involved fuzzy logic and automated machinery monitoring and control. Currently, he is a lecturer and Senior Research Associate at the university of Zimbabwe and University of Johannesburg, respectively. In the past (2012-2013), he has also lectured at the Chinhoyi University of Technology, Zimbabwe, lecturing mechatronics courses. He has also been an assistant lecturer for undergraduate students at Chinhoyi University of Technology, tutoring advanced manufacturing technology and machine mechanisms.



Professor Charles Mbohwa is an NRF-rated established researcher and professor in the field of sustainability engineering and energy focusing on green technology, energy and systems. In January 2012 he was confirmed as an established researcher making significant contribution to the developing fields of sustainability and life cycle assessment. He has contributed a chapter to a state-of-the-art book by experts in energy efficiency. In addition he has produced high quality body of research work on Southern Africa. Since 2012 he has worked on sustainability engineering with emphasis on integration of other soft aspects like humanitarian logistics and health care systems. The work also encompasses and integrates energy systems, life cycle assessment and bio-energy/fuel feasibility and renewable energy.