

Improving Engineering Education in Ethiopia and Africa using State of the Art technology and Innovative and engaging pedagogy.

For decades, government and private sector executives have learned that **people are their most important assets**. In today's global and highly competitive world, human capital has been so important that finding, developing, and retaining highly qualified workers, that can function in high demand and high growth sectors such as STEM is very critical. A possible solution is to develop partnerships and collaborations between universities in Africa and the rest of the world in order to provide **effective and targeted training** to the next generation **college and university teachers from Africa while they remain in their native countries**.

Morgan State University (MSU) has been working closely with 5 universities in Ethiopia since 2009 to improve the way they teach students enrolled in the Electrical and Computer Engineering (ECE) Departments. We have so far **donated 20 laptop computers** and **100 Mobile Studio boards** thanks to the financial support of Analog Devices Inc (ADI). We have also conducted several hands-on demonstrations and provided training on how to become an effective engineering instructor to more than 25 ECE instructors since 2009. They include: **course planning, effective lecturing, active learning, and assessment of learning**.

MSU is working closely with the Global Engineering Deans Council (GEDC) and the African Engineering Deans Council (AEDC) to launch the **Ethiopian Engineering Deans Council (EEDC)** during our upcoming **AFRICON 2015 Post conference workshops** in **September 17-18, 2015**. We plan to **donate an additional 200 Mobile Studio Boards** to **ALL public universities in Ethiopia that have an ECE department**. We will **provide hands-on training sessions** that will allow the participants to return to their respective higher education institutions with new knowledge and skills. We hope that the training workshops will have a “**multiplicative effect**” on the teachers that participate. We strongly believe that the system wide adoption of this new technology and pedagogy will **significantly improve the quality of ECE education in the country** and lead to a **better prepared engineering workforce** for years to come.