DAVIS PROJECT FOR PEACE PROPOSAL

Bringing hands on learning experiences to public primary schools.
Located in Arusha Chini Ward, Moshi District, Kilimanjaro Tanzania.
Inspired by Engineering Ambassadors WPI, Worcester Ma 01609, USA
Planned by Elitumaini Swai

To be executed, July 1st – August 20th, 2021

Mission: To initiate hands on learning experiences to public primary school students, which will enable them to develop a deeper understanding on science concepts, arouse curiosity and see how theoretical science knowledge can be applied to real world practices.

Vision: To bring inspiration and encouragement to young generation so as to spark their love for science subjects which in-turn solves the conflicts that arise from unemployment crisis in Tanzania.

Description of the project & involved subjects.

- **Students targeted** – grade 6 and 7
- **Schools that will be involved**
  - Arusha Chini Primary School
  - Langasani Primary School
  - Kiyungi Primary School
  - Kiyungi mpya Primary School
  - Kata nini Primary School
  - Mikocheni Primary School
  - Ronga Primary School
  - Chemchem Primary School
- **Mentors** – Science teachers in the primary school.
- **Project team members** – recruited from Tanzania, mostly university or high school students
- **Layout of the program during the project.**
  - For the first week I will be meeting with the team members to train them and run them through what the project will involve and the activity that we will be doing with the students.
  - I will also do short speeches for each school, on who we are, why we will be visiting the schools to run science experiments.
  - On the project days, I will deliver presentation on circuits, how they are made and what areas they are mostly used in, and why it’s important for engineers to design them carefully.
  - With the help of recruited team members (from Tanzania) together with mentors (science teachers at the primary schools) we will hand circuit scribe kits to students for them to design their own circuits that can lit a light bulb.
  - Through the process we will be helping them with asking questions on their ideas and commenting on the procedures, until they are able to achieve the end goal.
  - Even though we will be running the experiments once in every school, the kits will be available to schools and the other incoming students in other years will be able to use them.
  - To make this sustainable, I am planning on spending time with science teachers on giving them a short debrief on the experiment we will be running as well, that way its sustainable and the knowledge can be passed to other incoming students in future years.
Expected outcomes and prospects for future impact

1. To get youths who are able to contribute highly in the fostering of industrialization of Tanzania. Creating passion for science will create a larger population of youths who can go to science fields that are in need of more specialists in comparison to Arts sectors in Tanzania.

2. The hands on learning experience will help in removing the fear for science subjects, and the myth that science subjects are hard, and they can only be done by certain people of certain gender or status.

3. It will help in creating employment opportunities, when students have hands on learning experience, they could easily create employment for themselves as they are more creative.

4. The project will also increase understanding, and performance of students in the region and national level

5. The project will also open ideas to the science teachers, on coming up with science experiments that will enable students to build a deeper understanding on what they learn in class.