

# TTI REPORT ON THE GHANAN FAB LAB



# **The vision of the Institute**

**Professor Emmanuel Azasoo, Director of the TTI FabLab sent the following slides that he had prepared for the OLPC visitors May 28, 2011. This lab was established in 2004.**

**As of April 7, 2014 there are now 317 FabLabs in three dozen countries.**

# Mission of TTI

- **TTI strives to be second to none in the production of middle-level manpower for industry and self-employment.**
- **The Fab Lab in Ghana was a year old in July 2005. Before the establishment of the Fab Lab we did not understand what it really meant, what to do and where to go.**
- **Nevertheless, today we have made some remarkable progress.**

# GOAL

**Our goal is to identify community problems and find solutions to them; e.g. to convert the abundant renewable energy such as solar and wind to power machines and mechanize our agriculture and local art and craft industry.**

# PATRONAGE

- **Students from Takoradi Technical Institute**
- **Children from the orphanage**
- **Electrical trade association**
- **Adults from the community**
- **Female students from other institutions**

# Children from the orphanage



# Electrical trade association from the community



# Adults from the community





# Female students from other institutions



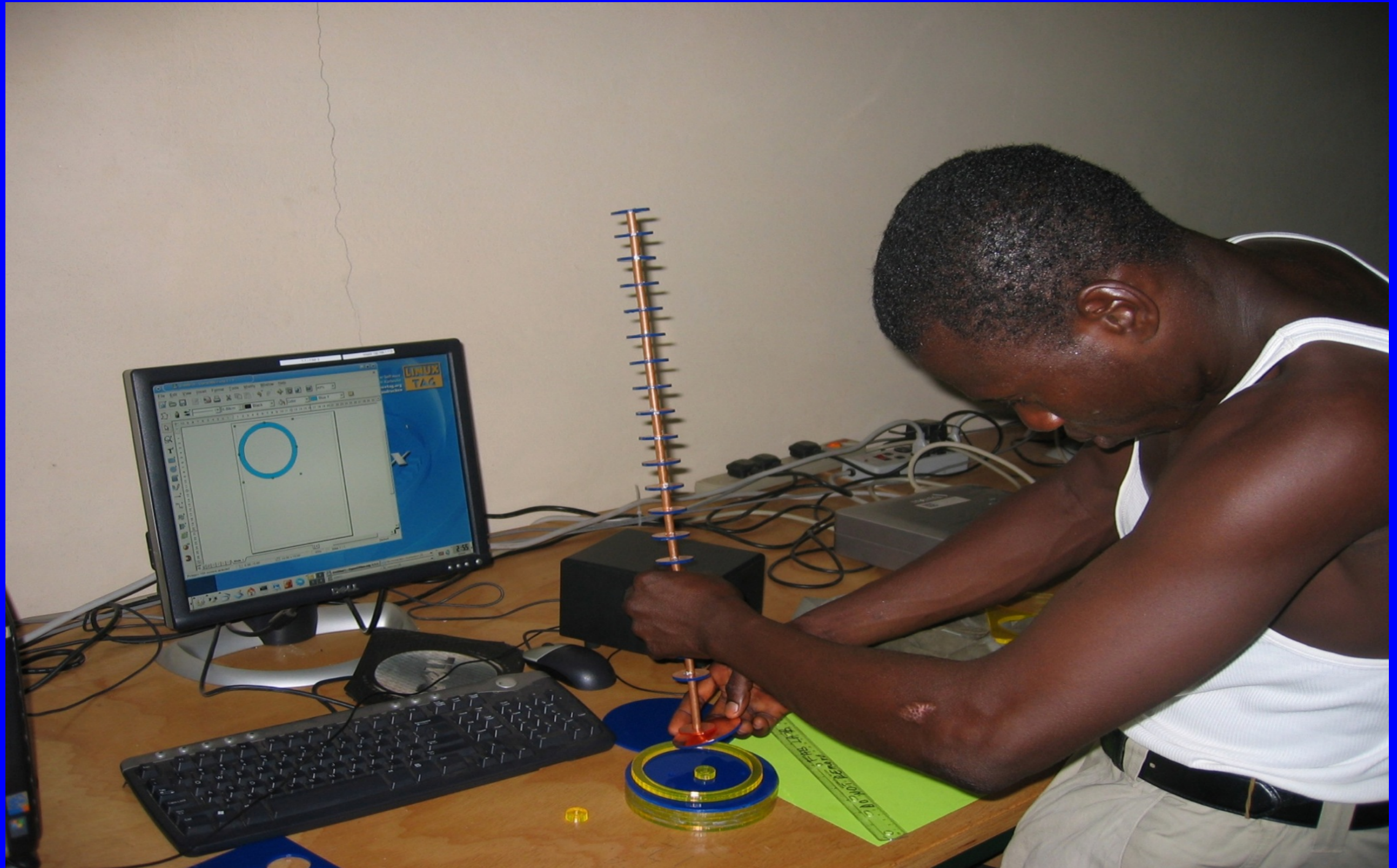
# PROJECTS

- **The FabLab has initiated some projects which we hope to make into businesses.**
- **Among these are the Fufu pounder which will be used to prepare the most common dish in every Ghanaian home.**
- **Secondly, fabricating a local television antenna, commercial antenna are very costly.**
- **We are also working on a refrigeration project using the vortex tube which will be installed in cargo trucks carrying perishable goods from the hinterland to the urban areas.**

# Fufu pounding machine



# Student on the antenna project



# Students designing circuit board



# Students on screen printing



# Way Forward

- **Construction of new FabLab facility.**
- **Training the next generation of students in personal fabrication**
- **Organize annual FabLab Fair.**
- **Establish linkage with sister institutions i.e. Technical & Vocational Polytechnics and the University of Cape Coast.**

# CONCLUSION

- **In conclusion we will like to thank the organizers of this workshop and once again our sponsors; the Center for Bits and Atoms of Massachusetts Institute of Technology for their support in all diverse ways and all participants for your kind attention.**
- **Neil Gershenfeld, 2007, *FAB the coming revolution on your desktop--from personal computers to personal fabrication***
- **ISBN 0-465-02746-6**