**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Justin Kwik Summer Tech Service Program**

**When:** 10 – 24 July 2014

**Hours:** Monday – Friday, 8.30 – 11.30 am. Followed by lunch (provided). And then afternoon outdoor activities as part of team building. Details TBA. Dismissal around 1.30 pm.

**Venue:** Ora et Labora Panglima Polim

**Objective:** Technology is a critical enabler for students to develop solutions to real world problems, especially when project-based learning and 21st century skills are utilized in the classroom. Students need to learn to use the power of information technology and the internet to develop 21st century skills to prepare them for today’s knowledge-based, technology-driven, globalized environment. Research has shown that these students will be more likely to increase future work quality.

Skills addressed: Real world problem-solving relating to issues in the local community, real life applications, collaboration, knowledge construction, skilled communication, critical-thinking, creativity.

After completion of the project, these 20 students will be involved in after-school activities at their respective schools to further the relevant knowledge, learning and experiences to other students.

Two students will have access to 1 desktop computer.

Assessment of teaching and learning will be conducted at the end of every class. Open and honest assessments will be encouraged.

**Lesson Plans:**

Subject to change (will be adjusted depending on students’ knowledge and pace).

Thursday 10 July:

* Introductions, get to know each other, understand everyone’s computer literacy level
* Agree on objectives and rules
* Learn free Google Apps (Google Docs)
* Work in pairs to use Google Docs in developing a 1-page paper on “About us: Who we are, what are we passionate about, and why” (some research has to be done on the subject)
* Knowledge: How to use available free resources on the internet
* Skills:
  + Collaboration
  + Knowledge construction
  + Skilled communication

Friday 11 July:

* Learn free Google Apps (Google Slides)
* Work in pairs and use the Google Docs the students created the day before on Thursday 10 July to apply knowledge of Google Slides in presenting the information visually in a 3-page presentation format
* Knowledge: How to use available free resources on the internet
* Skills:
  + Collaboration
  + Knowledge construction
  + Skilled communication

Weekend of 12 and 13 July: Work on finalizing the presentation

Monday 14 July:

* Presentation of the project developed on Friday 11 July and during the weekend
* Peer feedback
* Knowledge: How to use available free resources on the internet
* Skills:
  + Real life applications
  + Collaboration
  + Knowledge construction
  + Skilled communication
  + Creativity

Tuesday 15 July:

* Develop typing skills by using free web tools
* Introduction to game creation
* Knowledge:
  + Typing
  + Programming
* Skills:
  + Collaboration
  + Critical-thinking
  + Creativity

Wednesday 16 July, Thursday 17 July, Friday 18 July and Weekend of 19 and 20 July:

* Create simple computer games
* Knowledge:
  + Programming
* Skills:
  + Real life applications
  + Collaboration
  + Knowledge construction
  + Critical-thinking
  + Creativity

Monday 21 July:

* Study the 5 different types of pollution
* Trip to market at blok M for awareness on and observation of assigned pollution topics

Tuesday 22 July, and Wednesday 23 July:

* Learn free website / free blogging
* Use the awareness and observation developed on Monday 21 July aided by additional research to create a campaign for “Clean Jakarta”
* Presentation
* Peer feedback
* Knowledge:
  + How to use available free resources on the internet
  + How to research, analyze information and ideas
* Skills:
  + Real world problem-solving relating to issues in the local community
  + Real life applications
  + Collaboration
  + Knowledge construction
  + Skilled communication
  + Critical-thinking
  + Creativity

Thursday 24 July:

* Fun field trip “TBA”
* Reflection
* Certificate of completion