Non-Confidential Description - PSU No. 4343

“Interactive and GUI based Advanced Residency Training and Skills Assessment System”

Field of Invention/Keywords:
Biomedical, biology, computer software, devices, diagnostics, medical, process-procedure

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Background

With the advancement in medical technologies and increasing medical education outreach there is an increased demand for an improved evaluating system for healthcare providers. Unfortunately, the existing evaluation systems fail to address areas of improvements or track progress of healthcare providers in training (residents) at an individual level.

Invention Description

A group of experienced medical trainers, a medical trainee (resident) and an IT professional at Penn State has developed a prototype of an advanced evaluation app which can be downloaded on mobile devices. This app allows the trainer to uniquely tailor the training for an individual resident. In addition to score or rank the trainee and it also allows the trainer to provide text-based feedback, which has been shown to be very useful for learning.

Advantages
- Allows text-based feedback for individual trainee.
- Facilitates follow-up of gaps in trainee skills or knowledge.
- User friendly GUI based interactive assessment app which can be installed on mobile devices.
- Allows the trainer to establish custom goal setting and trustable behavior reinforcement for individual trainee.
- Ability to track the progress of resident specific observations made during previous assessments.

Status of the Invention

Available for licensing – Provisional patent application filed September 11, 2015