## **Abstract**

In the process of educating children, it will most likely successfull if the children has the motivation in learning. To do so, an interesting presentation method is needed in learning. Therefore, a true-false software game is needed to bring a new learning environment for children. The true-false game normally used to test the children exploration skills, and to raise their learning cognitive. Nowadays, the true false game is not only used in everyday learning environment, but it has been implemented into smartphone game. Although this game has been widely used, it only focused on raising the cognitive value of the children. Therefore, this software isn't fully effective and efficient to raise the intrinsic motivation out of children. According to this study, the solution is to create an interactive software for the true false game integrated with internet of things. This software is expected to make children interact directly with other users, and to train motoric sense of children. The software uses a microcontroller as an input system and an actuator as an output system. The actuator will be placed in two places, the true and the false. The actuator will recieve an input from a given statement, then children will have to choose between the two statement as their correct answer. This is to help children train their interaction skills and motoric sense. This experiment is concluded not only to raise children cognitive values, it also improves social interaction skills and train motoric sense of children, therefore makes the learning process more fun and interesting, also motivates children's intrinsic values.