

## **A SELF LEARNING APPLICATION IN VOCATIONAL TRAINING**

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### **Abstract**

"Self-learning" does not imply that students are left alone in a laboratory. "Self-learning", as a matter of fact, suggests that students, who are eager to improve their occupational ability, study either individually or in a group apart from their traditional learning process. Students are handed in materials about a technical subject considering their aspirations to work on after the basic information given to them. It is firstly aimed at contributing the development of students' occupational skills. Secondly, self-learning method involves the trained students' instruction for the freshmen and preparing education materials.

In this paper, our objective is to implement the self-learning method as a new learning method in vocational education into the field of electronics. In this respect, a project lab has been established in a vocational school providing traditional education. The lab, which has continuously been developing, serves self-learning method in vocational training and has a memory. Within the context of this study, a robotic hand, a simple lift, and a 3D printer have been made, in addition, Arduino Uno, Mega, ARM STM32F407, and STM32F429 cards have been programmed. Besides, practices about renewable energy, in particular photovoltaic systems, have been carried out.

**Keywords:** Self learning, vocational education, laboratories memory, life-long learning.