

Eldukit, Education Programming Media towards Technology Literacy

Monday, 19 June 2017 WIB, By: Marwati




The world keeps evolving. Changes of the world happen rapidly in line with the progress made in technology. Now the world is facing the fourth industrial revolution when the influence of nano technology, microcontroller, and all automated things keep evolving. To meet those changes, five UGM students of class of 2016 have offered a media learning product of arduino in kit form, named as Eldukit. Eldukit is expected to develop interests in innovation among secondary school students.

The UGM students are Ali Surojaya (chairman), Marisha Salsabila, Maulidini Fatimah Azzahra, Muhammad Nizar Rahman and Muhammad Fahriza, with the guidance of Dr. Eng. Herianto, S.T, M.Eng, who made the product for Student Creativity Programme for Entrepreneurship.

"Eldukit is an arduino learning media in the form of kit. Initially, we launched the first product of Eldukit, starter kit, for secondary school students in Indonesia as a start to arduino learning," Ali Surojaya said at UGM on Friday(16/6).

Ali Surojaya explained the starter kit contains arduino uno as the main component, buzzer, ultrasonic sensor, servo motor, and other supporting components, such as breadboard, resistor,



LED, and jumper cable.

The team did workshops at schools around Yogyakarta. Fajar Rahmadi, student from SMA N 7 Yogyakarta high school, said he gained benefits from Eldukit. Learning arduino using the Eldukit, he said, was very convenient as he did not have to buy each of the components separately.

"All is supplied in one package. Eldukit also comes with a guidebook which is easy to learn by yourself. The exercise given also trains us to understand better on arduino programming, so innovative ideas can easily be sparked by using the excellence of arduino," he said.

Nanda, from SMP Al-Azhar junior high, saw the Eldukit as a fun toy so he can learn as well as play. He said he felt cool for he can compose a song with a simple assembling and write the programme on the laptop.

"I want to train more so I don't need to see the guidebook anymore to be able to make this," said Nanda.

Marisha, marketing manager of Eldukit, added one of the purposes of Eldukit was to increase creativity and innovation of students in Indonesia so they can join competitions or research projects. The Eldukit team also provide free consultation so that students can be directed on their ideas

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