

ABSTRACT

Agriculture 4.0 is a plant care system that using technology. By using this system, plant maintenance becomes easier in terms of monitoring the sensors on the plant. In this final project, soil moisture sensor and light dependent resistor (LDR) sensor are used to monitor plants so that soil moisture in plants can be maintained and plants get sufficient sunlight. Arduino Arms is used as a tool to move plants to a position where there is a lot of sunlight. From the test results, the system can work as expected. The wifi communication medium is used as an intermediary between the plant and the control system. Using 2 (two) pots for plants as a Smart Small Garden system process.

Keywords: Small Garden, Arduino Arms, Soil Moisture sensor, light dependent resistor (LDR).