i-JaMCSIIX Exploring ideas 2021
International Jasin Multimedia & Computer Science Invention and Innovation Exhibition

# Farm Feeder Helper

Nur Fareena Ezani Binti As'ad
Noor Fadzilah Binti Razali

Fakulti Kejuruteraan Elektrik, UiTM Kampus Pulau Pinang, Kampus Permatang Pauh

fadzilah708@uitm.edu.my

JM048 – Innovation – Local – Category C: Students - Higher Institution (Diploma/Bachelor)

***Abstract*—Farmed domestic animals usually lives in cramped and filthy conditions with insufficient food, and drinks in enclosed areas. Instead of treating them as living beings, the modern industrial way in which this industry produces dairy and other animal products has turned them into mere production units. In this project, the animal will get its food based on the preset time in the programming. Other than that, it will ensure that animals in the farm will kept hydrated by providing enough water all the time inside the farm. Additionally, this project also ensures that the air inside the farm will remain fresh and clean from any unpleasant smell that have been produced by the animals inside the farm. As the result, animals in the farm will live a good life and act as the base in generating quality product in the future, as well as helping farm owners to control feeding time. This project utilizes the use of Arduino microcontroller to control the conditions in the farm by controlling proper ventilation system, feeding water level and appropriate feeding time. Both motor servo and exhaust fan are used to supply water and expel smelly odors respectively to achieve the optimal condition in the farm. Necessary informations are displayed on the Liquid Crystal Display (LCD) unit.**

***Keywords*—Farm animals, Arduino, gas sensor, feeder**