

***“DESIGN OF AUTOMATIC WEIGHING APPLICATION FOR CORN SEED
GRINDING MACHINE FOR ANIMAL FEED BASED ON MIT APP
INVENTOR”***

Salsabila Liandra Putri, S.K.M., M.K.K.K. (*Supervisor*)

Moh. Saiful Rizal

Study Program of Mechatronic Engineering Technology

Engineering Department

ABSTRACT

Corn grinding machines for animal feed are still operated manually without automation, causing inaccurate weighing and inefficient recording. This research aims to design an application based on MIT App Inventor to control and monitor an automatic weighing system and store grinding data on a smartphone. The experimental method included problem identification, literature study, application and data transfer system design, and Bluetooth connection testing with and without obstacles. The results show the application successfully connects to the device via Bluetooth, displays real-time weight data, receives target weight inputs, and saves data to CSV files. Tests without obstacles produced an average delay of 1.2–2.2 seconds, while tests with obstacles achieved 100% success rate.

Keywords: MIT App Inventor, automatic weighing, ESP32, Bluetooth, data storage