



Faculty of Engineering & Information Technology

Quality and Accreditation Unit

ABET Center

An-Najah National University
Department of Computer Engineering
Hardware Graduation Project

Planting Machine

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Abstract:

Based on our knowledge, this specific project has not been done before. Our aim is designing and developing a machine capable of automating the Planting pots process, Enhancing efficiency by eliminating manual intervention and streamlining the cultivation tasks.

The project aims to cover several important aspects, including precision control mechanisms, and an integrated water dispensing system. These aspects ensure accurate positioning of the pots, effective adding of fertile soil and seeds. The machine's design incorporates a circular plate attached to a motor, enabling sequential completion of tasks at four specific positions.

The project addresses crucial elements such as precise control, streamlined material delivery, and automated processes. By incorporating a circular plate, specialized mechanisms, and a water dispensing system, the machine facilitates sequential execution of tasks, including releasing pots, soil addition, seed placement, and water supply. Moreover, the machine contains a user-friendly LCD display that enables users to conveniently select the desired seed type.