

Faculty of Information Technology
IN 1900-ICT Project

Automatic Coconut breaking, scraping, and grinding machine

Group No: 15

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Banu A.G.S. -204018X

Karunaweera R.L. -204096G

Kumarasingha H.J.A. -204108A

Lamahewage D.R. -204114M

Progress after the interim

After the interim these are the implementations in our project.

1. We add glass box to the machine for control the dust which comes at the time of coconut breaking.



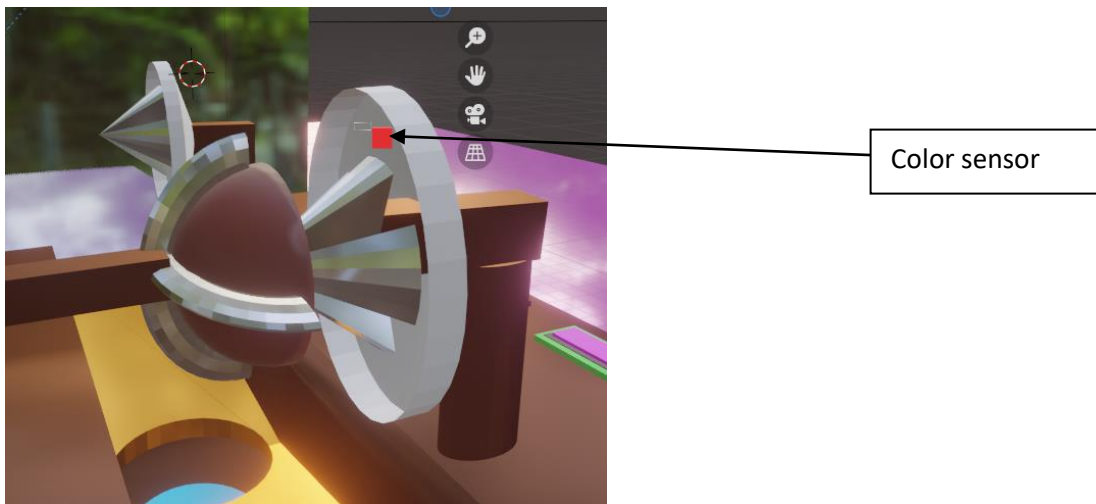
Glass box

2. Grinding system is automated by using another DC motor.



Automated
Blender

3. We use color sensor to identify the scrap coconut and to control the coconut scaping time.
 - Color sensor will identify the scraping time by detecting the color of the coconut shell and the white outer layer.



4. Using I2C Module for LCD display.

After the interim all our group members are studying basic micro controller programming and their individual components study through data sheets. We completed individual components code and simulation with proteus software. We are trying to complete full code for our system.

After the interim Individual Contribution to the Project

Name of student: Nusky M.N.N. (204146L)

1. Study basic microcontroller programming.
2. Studying LCD and Ultrasonic sensor module.
3. Programming LCD and Ultrasonic sensor module.
4. Study about microcontroller architecture and memory.

Name of student: Banu A.G.S. (204018X)

1. Study basic microcontroller programming.
2. Studying stepper motor module and power supply.
3. Programming stepper motor module.
4. Study about microcontroller architecture and memory.

Name of student: Karunaweera R.L. (204096G)

1. Study basic microcontroller programming.
2. Studying servo motor module and buzzer module.
3. Programming servo motor module and buzzer module.
4. Study about microcontroller architecture and memory.

Name of student: Kumarasingha H.J. A. (204108A)

1. Study basic microcontroller programming.
2. Studying DC motor module and color sensor.
3. Programming DC motor module and color sensor.
4. Study about microcontroller architecture and memory.

Name of student: Lamaheewage D. R. (204114M)

1. Study basic microcontroller programming.
2. Studying IR sensor and Keypad modules.
3. Programming IR sensor and Keypad modules.
4. Study about microcontroller architecture and memory.