Receipt Recognition and Organization Module

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HW Components

- Raspberry Pi 2
- Raspberry Pi Camera Module
- Button Switch
- Tracking Sensor (Obstacle Avoidance Sensor)
The Completed Module
SW Frameworks

- Tesseract-OCR
- Natural Language Processing (NLP)
- Google Calendar
FSM of the Module

[Diagram showing the Finite State Machine (FSM) with states and transitions labeled with conditions such as 'Tracking = Y', 'Photo = N', 'Button = Y', and 'Button or Tracking = Y'.]
Module Demonstration

- Taking Photo
  - Manual Mode
  - “Automatic” Mode

- Recognizing Photo and Processing Raw Text Results

- Creating Event
  - Time, location, and price
Highlights of Results

• Text results after Natural Language Processing (NLP)

• Google Calendar events