System Design Document

Project's idea: Raspberry Pi Image Recognition

I. Design Options

    1. Option1: Google Cloud Vision API

- Cost: Not totally free.
- Difficulty: Easy.
- Compatibility with Raspberry Pi: Match.

    2. Option2: Amazon Rekognition

- Cost: Not totally free.
- Difficulty: Medium.
- Compatibility with Raspberry Pi: Match.

    3. Option3: OpenCV

- Cost: Free.
- Difficulty: Easy.
- Compatibility with Raspberry Pi: Match.

II. Option Choice

I will choose "OpenCV" because it is an open source tool which means totally free to use. Also, "OpenCV" has more stars in GitHub than Google Cloud Vision API and Amazon Rekognition, which means I can use "OpenCV" to complete my project more easily.

III. System Block Diagram