**Problems to be solved:**

Problem 1: How to do person detection?

->HOG ?

Problem 2: What kind of data should be contained in the image analysis result?

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Problem 3: How to adjust the position and the orientation according to the image analysis?

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Problem 4: How to retrieve Video from the Android phone?

**Camera Module**: Collecting Images, includes the Android Phone java program, and should handle the communication between Android phone, and should store the image collected from the Android phone for Image Module’s usage.

**Image Analyzer Module**: doing object detection

**Reference Generator Module**:

**Image-to-Action Module**: This module should translate the image analysis result into actual action, like how to adjust the position to have a more close image to the reference. It takes input from the Image Analyzer Module and the Reference Generator Module, and output to the Action Planning Module.

1. Translate Image analysis result into action command.

2. Able to filter noise from Image analysis result

**Action Planning Module**: This module should take the input from Image-to-Action Module, and then output series of actual commands message to the car module.