# Integration and Testing

## Device Integration

The program’s code will be contained within a Raspberry Pi. Raspberry Pi is a low-cost computer of small size developed by the Raspberry Pi Foundation in the United Kingdom with the purpose of helping promote the study of computer science and bringing programming to developing countries, but it also sees extended use in other fields such as robotics[[1]](#footnote-1).

Part of the success of the Raspberry Pi is due to the wide variety of models that exist, as well as their accessible price. By default the Raspberry Pi doesn’t include peripherals such as mice, keyboards or even a screen, but most models include several ports that allow such devices to be connected externally. Some models include an Ethernet port that allows the Raspberry Pi to access the Internet.

Raspberry Pi can work with many different operating systems, but this project will use Raspbian, a Debian-based Linux distribution and the primary operating system officially provided by the Raspberry Pi Foundation.

## Graphical Interface

1. http://elinux.org/RPi\_Hub [↑](#footnote-ref-1)