

# Introduction to ESP32 using Vaman

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Abstract—This document provides a simple introduction to programming the ESP32 on Vaman using the Arduino framework

## 1 Software

All codes used in this document are available at the following link

<https://github.com/gadepall/vaman/tree/master/esp32/codes/setup>

## 2 Setup

- 2.1. Connect the USB-UART to raspberry pi through USB.
- 2.2. On the rpi

```
dmesg | tail
lsusb
```

you should see the USB-UART connector detected.

- 2.3. Connect the USB-UART pins to the Vaman ESP32 pins according to Table

VAMAN LC PINS	UART PINS
GND	GND
ENB	ENB
TXD0	RXD
RXD0	TXD
0	IO0
5V	5V

TABLE 2.3.1

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