

A Beginner's Guide to the ESP8266

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An updated version of the [original guide](#).

This is very much a work in progress. If you have any suggestions, please [open an issue](#) on GitHub.

Introduction

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Hardware

Hardware.

Software

A Beginner's Guide to the ESP8266.

The ESP8266 as a Microcontroller

A Beginner's Guide to the ESP8266.

Network Protocols

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Uploading

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Establishing a Wi-Fi Connection

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The Multicast Domain Name System (mDNS)

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Web Servers

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First Web Server

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The SPI Flash File System (SPIFFS)

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Uploading Files to the Server

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Over-The-Air Updates (OTA)

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WebSocket Communication

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The Network Time Protocol (NTP)

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Data Logging

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Email Notifier

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Advanced Topics and Further Reading

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Conclusion

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