# 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

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# The ESP8266 as a Microcontroller

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#### **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**A Beginner's Guide to the ESP8266.

## **Email Notifier**

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# **Advanced Topics and Further Reading** A Beginner's Guide to the ESP8266.

# Conclusion

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