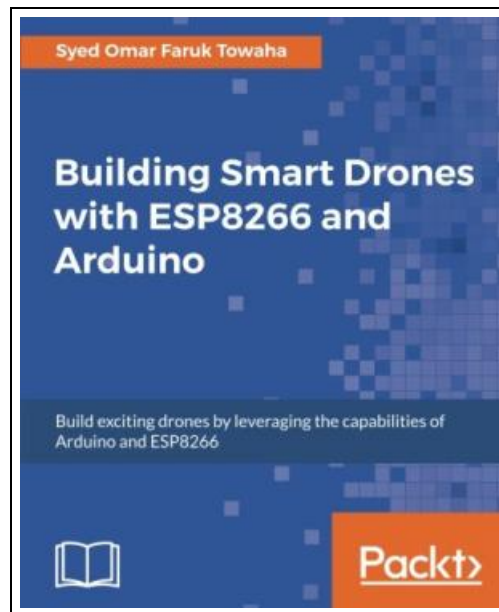


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(Mitchell Kuhn III)

BUILDING SMART DRONES WITH ESP8266 AND ARDUINO: BUILD EXCITING DRONES BY LEVERAGING THE CAPABILITIES OF ARDUINO AND ESP8266 (PAPERBACK)



Packt Publishing Limited, United Kingdom, 2018. Paperback. Condition: New. Language: English. Brand new Book. Leverage the WiFi chip to build exciting QuadcoptersKey FeaturesLearn to create a fully functional Drone with Arduino and ESP8266 and their modified versions of hardware. Enhance your drone's functionalities by implementing smart features. A project-based guide that will get you developing next-level drones to help you monitor a particular area with mobile-like devices.Book DescriptionWith the use of drones, DIY projects have taken off. Programmers are rapidly moving from traditional application programming to developing exciting multi-utility projects. This book will teach you to build industry-level drones with Arduino and ESP8266 and their modified versions of hardware.With this book, you will explore techniques for leveraging the tiny WiFi chip to enhance your drone and control it over a mobile phone. This book will start with teaching you how to solve problems while building your own WiFi controlled Arduino based drone. You will also learn how to build a Quadcopter and a mission critical drone. Moving on you will learn how to build a prototype drone that will be given a mission to complete which it will do it itself. You will also learn to build various exciting projects such as gliding and racing drones. By the end of this book you will learn how to maintain and troubleshoot your drone. By the end of this book, you will have learned to build drones using ESP8266 and Arduino and leverage their functionalities to the fullest.What you will learnIncludes a number of projects that utilize different ESP8266 and Arduino capabilities, while interfacing with external hardwareCovers electrical engineering and programming concepts, interfacing with the World through analog and digital sensors, communicating with a computer and other devices, and internet connectivityControl and fly your quadcopter, taking into account weather conditionsBuild a drone...



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