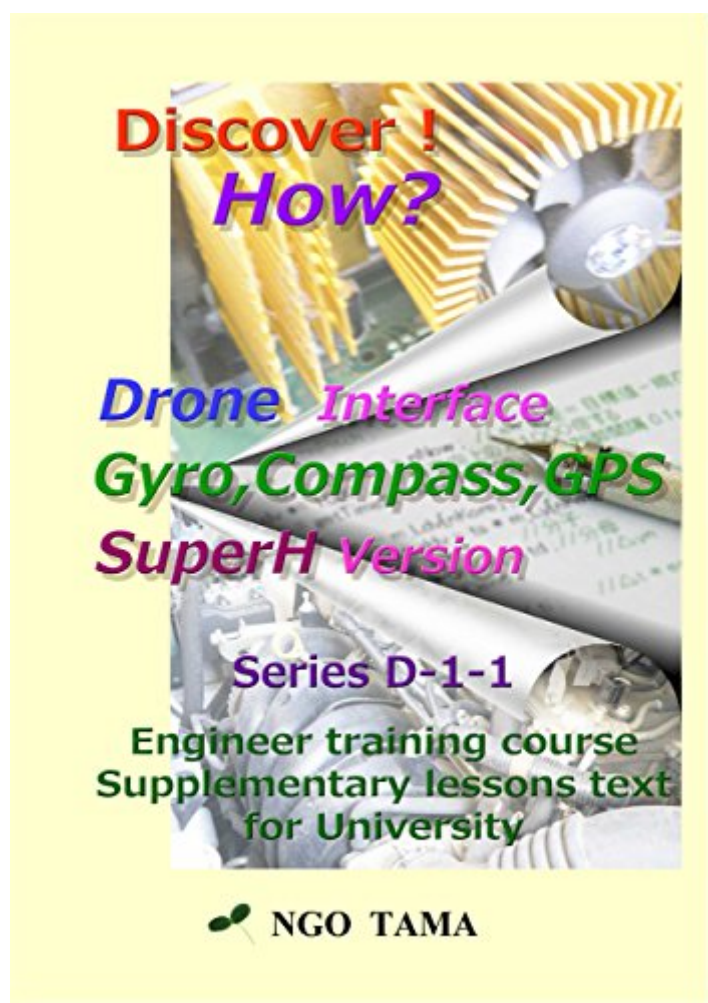


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# Drone Interface 1: Training Materials For Engineer (Discover! How? Book 15)



## Synopsis

Recently, the drone has become a hot topic. An example of the software of the interface part of the drone is showed in this book. Although we were addicted to a model plane in boyhood, it became the era when it could fly a drone! A variety of sensors and control has been mounted on the drone. Gyroscope, digital compass, GPS, ultrasonic distance sensor, and the PWM output to the DC motor are featured in this book. The other device and control method is scheduled to be described on the next book. Actually assembling the device, this book tells how to create the software in step-by-step. Since MPU used here is SH7286F of Renesas, we can handle it obediently as compared to the recent RX-MPU. Although how to access the MPU registers are slightly different, the interface to the sensor are common. This book is written as a teaching aid for the engineering course of university. What is NGO TAMA? Reading the report that "to get out of poverty, it is to send electricity to the village", I felt that it is the mission of those who were involved in power generation. However, what should we do? What is needed? What we can do? At the end of ask myself, we thought it seems to be able to do if it is human resources development.. And so we started this NGO. TAMA is taken from the Japanese proverb of "TAMA MIGAKAZAREBA HIKARI NASHI (An uncut gem does not sparkle)". This TAMA means person. As a part of the NGO activities, we are publishing books. From the era of 8080 and 6800, the author has been involved in the creation of software of microcontrollers for industrial machinery more than 30 years. This series is targeted to the young engineers and the students so that cultivate basic ability to create software. Please utilize this book. In the series of book "Discover! How?" the following books have also been

published.-----LineTracer+R8C+HEW+Fuzzy(1)(2)-----Sensor,Compass,Gyro(1)(2)-----CAN+GPS+SuperH & RX(1)(2)(3)-----Photo Album+Visual C#+Application-----Factory+Visual C#+Logic Training-----Tower of Hanoi+Visual C#+Logic Training-----Trend Graph+Visual C#+Logic Training-----Fuzzy+PID+Visual C#-----Elevator+Visual C#+Logic Training(1)(2)-----Maze+Visual C#+Logic Training-----Sudoku+Visual C#+Logic Training-----Unmanned Carrier+Visual C#+Logic Training(1)(2)-----Monitor+Equipment+Visual C# (1)(2)(3)(4)-----Drone Interface(1)(2)(3)(4)-----Embedded System Basic(1)(2)-----Frequency+Voltage&Current+VisualC#-----

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