Topic 5

Introduction to Home Laboratory Kit

Professor Peter YK Cheung
Dyson School of Design Engineering

URL: www.ee.ic.ac.uk/pcheung/teaching/DE1_EE/
E-mail: p.cheung@imperial.ac.uk
What’s inside Home Lab Kit Parcel?

- Pre-cut hookup wires
- Zip bag containing various modules and components
- Instruments on loan to you
- EPS32 microcontroller module on a breadboard
What’s inside Black Pouch?

1 channel oscilloscope

Multimeter & measurement probes

Scope probe

Oscilloscope user’s manual

MicroUSB cable to connect to ESP32

USB to 9V converter cable
The ESP32 module and the Breadboard

Heltec wifi 32 kit

Breadboard
Hookup wires

RED - +ve supply
BLUE - Ground
Inside the zip bag

- 10-way ribbon cables
- Loose wires
- Header pins
- Power module
- Box of components
- Motor driver
- Servo motor
- Rotary encoder
- Cable tie
- 9V battery connector
Various components
Your first job!

- 68Ω (1)
- 100Ω (2)
- 200Ω (2)
- 1K (3)
- 1.1K (1)
- 2K (1)
- 8.2K (1)
- 10K (5)
- 20K (2)
- 82K (1)
- 100K (1)
- 200K (4)
- 0.01μ (4)
- 0.1μ (2)
- 1μ (2)
- 220μ (1)

- IN914 (1)
- LEDs (5)
- MOSFET (2)
- Mic (1)
- Micro Switch (1)
- MCP6002 (2)
- Op Amp
- LM386 (1)

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