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IOT CONTENTS

- Introduction to the Internet of Things
- History
- Definitions
- Application Areas
- Pitfalls
- Introduction to Raspberry Pi
- What is Raspberry Pi?
- Tools: Win32ImageWrite & SDFormatter
- Loading RaspbianOS image on SD CARD
- Connecting Powering up & configuring Raspberry Pi
- Installation, Powering up & configuring Raspberry Pi, updates and upgrade as per requirement
- Hello World - program demo using C
- LED blinking ---- GPIO output test
- Switch - LED test ---- GPIO input & output test
- IR-TxRx Sensor test ---- GPIO input test
- Soil Moisture Sensor test ---- GPIO input test
- Rain Sensor test----GPIO input test
- ADC MCP3204 test ----SPI with GPIO bit-banging method
- ADC MCP3204 test ----Using On-Chip SPI Peripheral through wiring Pi
- RTCDS1307 test ----Using On-Chip I2C Peripheral through wiring Pi
- Networking with Pi
- Client - Server programming for Automating Device/ snifing Device State
- IoT
- Installing PubNub SDK for C language
- Creating Account with PubNub Cloud Server
- Using keys for publishing & subscribing through PubNub Cloud
- Hello World- program demo using PubNub Cloud
- Automating Devices using DTEs(PC/LAPTOP/MOBILE)
  VIA PUBNUB CLOUD
- Sniffing information using DTEs(PC/LAPTOP/MOBILE)
  VIA PUBNUB