

Number	Description
#001	(Test) Scrolling text with a MAX7219 LED Dot Matrix Module and an Arduino UNO – easy!
#002	(Test) MAX7219 Scrolling Text and an Arduino Uno
#003	Beginner's Guide to Arduino Hardware Part 1
#004	Beginners's Guide to Arduino Hardware Part 2
#005	Arduino compatible Real Time Clock modules (RTC) - DS1307 & DS3231
#006	USB Powerbank special - DIY kit with 18650 Li-Ion batteries Part 1
#007	USB Powerbank special - DIY kit with 18650 Li-ion batteries Part 2
#008	Simple Demo of Binary Coded Decimal (BCD) for Real Time Clocks (such as DS3231 & DS1307)
#009	Arduino and LED 7-segment displays using a MAX7219 - Part 1
#010	Arduino and LED 7-segment displays using a MAX7219 - Part 2
#011	Arduino and LED 7-segment displays using a MAX7219 - Part 3
#012	Postman #2 Cork LEDs And Retro LED Watch ESPDuino WiFi Board
#012a	Welcome! This is my YouTube Channel Trailer...
#013	Matrix Membrane Switch (12-key 4x3) an Arduino PLUS a LED MAX7219 display
#014	Arduino PWM (Pulse Width Modulation) Basics Part 1
#015	Arduino PWM (Pulse Width Modulation) Part 2
#016	COM Ports & Device Drivers - Connect your Arduino to your PC (or Mac)
#017	Ultrasonic HC-SR04 for your Arduino (Easy!)
#018	Add a Relay Module to your Arduino project - Hints Tips & Traps
#019	How to use a Rotary Encoder with an Interrupt routine on your Arduino
#020	Postman #3! Does Size Matter? Reducing the footprint of your Arduino project
#021	Voltage Conversion: Linear Voltage Regulator vs Buck Converter
#022	Using an SD card to log data - and how to improve the reliability!
#023	LCD BIG DIGITS for your Arduino using I2C - Easy!
#024	Four ways to RESET your Arduino
#025	Scrolling Characters on an LED Matrix using a MAX7219
#026	Night-light 1W LED MOSFET PWM with Remote Control - Part 1
#027	Night-light 1W LED MOSFET PWM with Remote Control - Part 2
#028	DS18B20 Temperature Sensor and CAP1188 Touch Board
#029	Essential Arduino Workbench tools
#030	Cap1188 Touch Sensor & USB Keyboard Emulator using Arduino Leonardo
#031	Load Cell project (part 1) Arduino Micro problems plus postman deliveries
#032	Load Cell Coffee Cup Coaster (Part 2) - the code
#033	ESP8266 WiFi Web Server Arduino style -introduction
#034	RFID Reader/Writer (Mifare MFRC522) with a Logic Level Shifter
#035	Power Supply (9v) Repair - woah! Mains Voltage!
#036	Control your Arduino from your phone - HC06 Bluetooth module
#037	Controlling your Arduino from your phone - Part 2 (the App)
#038	Stepper Motor 28BYJ-48 Temperature Gauge - Part 1
#039	Stepper Motor 28BYJ-48 Temperature Gauge - Part 2 Completing the project
#040	Let the music play! Arduino based MP3 Player for music (or announcement)
#041	Arduino Fridge Door Open Reminder with Touch Control - Part 1

#042	Fridge Alarm Door Open Reminder - Part 2 Putting it together
#043	Seven segment LED Multiplexing - Easy Introduction
#044	Wireless Rain Sensor - Discussions & Experiments
#045	Shopping for Arduino Components (and a lucky find)
#046	Wireless 433MHz Rain Sensor (Transmitter)
#047	Arduino related components - Part 2
#048	Wireless 433Mhz Rain Receiver with MP3 player and LCD
#049	MORE PINS PLEASE! PCF8574 Arduino Pin Extender (Easy)
#050	TP4056 UPS - protect from power outs and brown outs
#051	Easy Xmas Project Idea (& Product Updates)
#052	Arduino Compatible Microphone Preamplifier super LEDs and awful resistors
#053	Protect your Arduino - use an Opto Isolator! And RGB sound-to-light demo
#054	Wireless 433Mhz Rain Receiver (Completed)
#055	Using a Hall Effect Magnetic Sensor
#056	How to build an LED Cube - Part 1
#057	Xmas Tree Project - Completed
#058	Strange Third Hand - and other tools for Arduino projects
#059	Arduino LED Cube - Part 2 Creating Patterns
#060	LED Party Strobe - Part 1
#061	LED Party Strobe Part 2
#062	NeoPixel demo plus eBay Goodies
#063	Cascade MAX7219 7-Segment LED displays - easy!
#064	Lie Detector! Heartbeat Pulse Monitor KY039 - It's life Jim but not...
#065	Arduino EEPROM Basics - easy to do and useful to implement
#066	AT Tiny85 Digispark - Arduino UNO alternative? An introduction!
#067	Vibration and other switches for your Arduino
#068	NeoPixel TV Simulator - Security for your home - Easy!
#069	Alternative Arduino IDE - Sublime Text Editor
#070	GPS Ublox - First look! Possible RTC replacement?
#071	How to create an Arduino Library - easy!
#072	Arduino controlled Dual PWM controller & Timer thoughts
#073	nRF24L01 Send (and receive) data with your Arduino!
#074	Web Enable your Arduino (ENC28J60 or W5100 Ethernet Controller)
#075	Send EMAIL from your Arduino! Better HTML! Time Server! More!
#076	MPU6050 3-Axis Accelerometer Gyro - First Look
#077	Forget buttons - use Infra Red! VS1838B first look
#078	See thru walls! Microwave Movement Sensor
#079	IR Rain ↑ Sensor Soldering Irons (and more!)
#080	Scrolling LED Matrix MAX7219 *Updated*
#081	eBay Goodies Update
#082	ATTiny85 + I2C + SPI and more!
#083	Colour Touch Screen TFT LCD for your Arduino - Cheap & Easy
#084	Making the ATTiny85 easier to program

#085	Arduino vs Orange & Raspberry Pi Zero ☑
#086	More eBay Goodies (for the price of a cup of coffee)
#087	https://youtu.be/yAT_TdD6nL0
#088	Digital Potentiometer aka Volume Control - Easy (X9C103)
#089	Nokia 5110 TFT Display - Cheap and Easy
#090	When GOOD 😊 components go BAD 😞
#091	Arduino-related Product Review
#092	JYE Oscilloscope Kit ✂ (DSO150 Review & Build)
#093	EEPROM Data Compression
#094	TM1637 LED Controller (Part 2) using NTP Server
#095	Speed Contest! ESP8266 ESP32 and the Uno 328P
#096	Rotary Encoder Update - Step-less & Software Debounced
#097	Simple function (signal waveform) generator
#098	Telephone Dialler 📞 and Hardware Debounce Solution (retro)
#099	Logic Analyzer for I2C SPI and many more protocols
#100	Tesla Coil & Useless Box - with added value!
#101	Fun 😊 SSD1306 OLED Screen for your Arduino project - I2C or SPI
#102	L298N H-Bridge Motor Control - How does it work?
#103	HC-SR04 Ultrasonic Obstacle Avoidance and Range Finder (fun!)
#104	ADS1115 Analog-to-Digital Converter for Arduino Pi ☑ & All (2018)
#105	Unsafe ⚡ Encapsulated TSP-05/HLK-PM01 PSU? AND other stuff (cheap!)
#106	RS485 Serial Data Transmission - on wires (no radio waves)
#107	ESP8266 WiFi Relay (with an Arduino)
#108	Breadboard gripes 😊 plus Mega 2560 PRO (Eclipse version)
#109	Workshop Build 🛠 and Automation (Sonoff included)
#110	ESP8266 relay RANT and 4-ch Sonoff first look (Alexa controlled)
#111	Mains Opto Isolator (SAFE ✔ Workshop Automation)
#112	Analog inputs for your Raspberry Pi ☑ Model 3B+ (easy)
#113	ISD1820 Audio Recorder Module (Arduino or ☑ RasPi)
#114	No contact mains detector for Arduino & Pi ☑ (just 10 components)
#115	Put your Arduino to Sleep zzz (using wake up ▶ INTERRUPT)
#116	Deep Sleep zzz Bare-Bones Arduino (using wake up ⌚ TIMER)
#117	Bare Bones 💀 Arduino (make your own)
#118	ESP8266 Deep Sleep ⚡ and Bare Bones ESP (easy)
#119	Bootloader Shield ☑ and 8Mhz Arduino Barebones (made easy)
#120	Wemos D1 Mini 🐼 Intro (with shields)
#121	Audio Amplifier 🎵 Class D 3W Module for Arduino (and more)
#122	Raspberry Pi 3B+ Auto Restart (using an Arduino)
#123	Arduino Auto Shutdown (and switch off)
#124	Raspberry Pi UPS Fix - with an ATTiny85 control (EASY)
#125	TPL5110 Nano Power Timer (for Arduino)
#125a	Where's Ralph?

#126	Simple Battery to USB power conversion (mini project)
#127	Relay Comparison - Electromechanical SSR Latching
#128	Making a PCB with PCBWay (I made < one)
#129	Barking mad 🐕 dog bark detector /deterrent (Woof)
#130	TEA5767 FM Radio 📻 Module for your Arduino (Cheap!)
#131	Mechanical relay overload and snubber (with sparks)
#132	Using EasyEDA and KiCAD for Improved PCB (dog deterrent)
#133	Workshop Heater Repair 🔧 using an Arduino (Nano 168)
#134	Triacs Mains AC DC SSRs 😞 What's going on?
#135	Compact Switched Mode Power Supply 12v 1A (tested)
#136	MOSFET vs BJT NPN (TO92 package) 🔧
#137	K-Type Thermocouple Display
#138	Internet of Things (IoT) with an ESP8266 (Thingspeak Live Demo)
#139	No Real Time Clock (RTC) Required (Wemos ESP8266 Mini)
#140	Secure GMAIL emails from your ESP8266 (or Arduino)
#141	ESP32 + SSD1306 OLED Single Module (Arduino Compatible)
#142	Optical Door Lock 🚪 Monitor (using an Arduino)
#143	Touch Switch 🖐 with optional TTP223 module (ESP8266 or Arduino)
#144	PCB for ATtiny85 Fuse Resetter (using JLCPCB & EasyEDA)
#145	Making an SMD THT Hybrid PCB Arduino Clone (Using PCBWay & KiCAD)
#146	How to Support My YouTube Channel (at no cost 💰 to you!)
#147	Fingerprint readers 🔍 for Arduino (R307 plus Adafruit version)
#148	TCA9548A I2C MULTIPLEXER (& Voltage Shifter)
#149	ESP32 Dual Core Programming + Speed ⚡️Test vs Arduino UNO (fast!)
#150	SMD KiCAD Arduino PCB Project (Spoiler: 😞=FAIL)
#151	ESP32 Passing Values 📄 Between Tasks - Deep Dive (2 Easy Ways)
#152	STM32 Blue Pill - Is this a modern NANO replacement (✓)
#153	STM32 clones - good value or cheap copy? Asian Alternative Components
#154	ESP8266 Wemos D1 Mini HOME 🏠 ALONE monitoring project
#155	STM32F103 Programming Helper PCB (Blue Pill)
#156	LGT8F328P Replacement for ATMEGA328P (at 32MHz 😊)
#157	Top 5 Essential Arduino Workshop Tools 🔧 - Beginner & Upgrader