

# LIST OF EXPERIMENTS

## 130-IN-ONE ELECTRONIC PROJECT LAB

1.	Electronic Woodpecker	34.	Transistor-Transistor Logic Buffer Gate	67.	Electronic Organ	100.	Study Timer
2.	The Chirping Bird	35.	TTL Inverter Gate	68.	Daylight Early Bird	101.	Kitchen Timer
3.	Electronic Cat	36.	TTL AND Gate	69.	Intermittent Alarm Generator	102.	Three-Input AND Gate Using Operational Amplifier
4.	Sonic Fish Caller	37.	TTL OR Gate	70.	Comparator	103.	Voice Level Meter
5.	Machine Gun Pulse Oscillator	38.	TTL Exclusive OR Gate	71.	Basic Increase in DC Voltage	104.	Power-On Reset Circuit
6.	Electronic Motorcycle	39.	TTL NOR Gate	72.	Constant Current Source	105.	Delayed Timer
7.	Two-Tone Patrol Car Siren	40.	TTL Three-Input AND Gate	73.	Integrating Circuit	106.	Pulse Frequency Doubler
8.	Electronic Siren	41.	TTL AND Enable Circuit	74.	Schmitt Trigger Circuit	107.	White Noise Generator
9.	Electronic Metronome	42.	TTL OR Enable Circuit	75.	Noninverting Two-Power Supply Amplifier	108.	DC-DC Converter with Op-Amp
10.	Electronic Grandfather Clock	43.	TTL NAND Enable Circuit	76.	Inverting Two-Power Supply Amplifier	109.	Code Practice Oscillator with Tone Control
11.	Light-Controlled Electronic Harp	44.	TTL R-S Flip-Flop	77.	Noninverting Single-Power Supply Amplifier	110.	Crystal Set Radio (Simple-Diode Radio)
12.	Horror Movie Sound Effects	45.	NAND Gate Toggle Flip-Flop Circuit	78.	Two-Power Supply Differential Amplifier	111.	Two-Transistor Radio
13.	Strobe Light	46.	TTL Line Selector	79.	Tone Mixing Amplifier	112.	Wireless Code Transmitter
14.	Rapid LED Display Switching	47.	TTL Data Selector	80.	Power Amplifier Using Operational Amplifier	113.	Am Radio Station
15.	Capacitor Discharge/High Voltage Generator	48.	TTL Astable Multivibrator	81.	Voltage Controlled Oscillator Circuit	114.	Operational Amplifier Radio
16.	Capacitors in Series and Parallel	49.	TTL Tone Generator	82.	Operational Amplifier Buzzer	115.	Aural Continuity Tester
17.	Resistors in Series and Parallel	50.	Winking LEDs	83.	Burglar Alarm	116.	Conductivity Tester
18.	Light Dimmer	51.	A One-Shot TTL	84.	Hand-Operated Sweep Oscillator	117.	Transistor Checker
19.	Transistor Switcher	52.	Transistor Timer with TTL	85.	Falling Bomb Sound	118.	Sinewave Audio Oscillator
20.	Transistor Circuit Action	53.	Buzzin' LED	86.	Emergency Siren	119.	Low Distortion Sinewave Oscillator
21.	Sound Amplifier	54.	Son of Buzzin' LED	87.	First Aid Siren	120.	Twin-T Audio Oscillator
22.	Flip-Flop Multivibrator with LED Display	55.	Set/Reset Buzzer 1	88.	Musical Tempo Generator	121.	Pulse Oscillator Tone Generator
23.	Seven-Segment LED Digital Circuit	56.	Set/Reset Buzzer 2	89.	Operational Amplifier Winking LED	122.	Audio Signal Tracer
24.	Basic LED Display	57.	Sound Machine	90.	LED Flashing Light	123.	Radio Frequency Signal Tracer
25.	Transistor Control Switching of LED Display	58.	Big Mouth	91.	Two-LED Winker	124.	Square Wave Audio Oscillator
26.	Transistor, CDS Cell and LED Display Circuit	59.	Shot in the Dark	92.	One Shot Light	125.	Sawtooth Wave Oscillator
27.	Diode-Transistor Logic AND with LED Display	60.	Variable R-C Oscillator	93.	LED Initials	126.	Rain Detector
28.	DTL OR Circuit with LED Display	61.	Oscillator with Turn-Off Delay	94.	Wake Up Siren	127.	Water Level Buzzer with Op-Amp
29.	DTL NAND Circuit with LED Display	62.	Temperature-Sensitive Audio Oscillator	95.	Voice-Activated LED	128.	Metal Detector
30.	DTL Exclusive OR Circuit	63.	Two-Transistor, Directly Connected Oscillator	96.	Logic Tester	129.	Water Level Alarm
31.	Transistor NOR Circuit with LED Display	64.	Push/Pull Square Wave Oscillator	97.	Alternating Current Sound	130.	Three-Step Water Level Indicator
32.	Transistor Flip-Flop Circuit	65.	Pencil Lead Organ	98.	Light Control Sound Circuit		
33.	Transistor Toggle Flip-Flop	66.	LED Strobe Light	99.	Sound Alarm Circuit		

You never know what you'll find next when you start exploring electronics with this

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