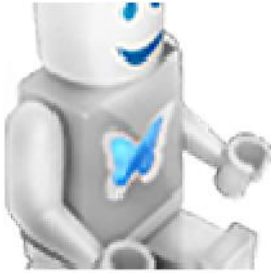


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PROTO

Proto: Workshop Details

Description



Proto = prototyping

Proto is a unique workshop where one learns to prototype different circuits. These circuits are prototyped on a General purpose PCB (general purpose PCB) using smart soldering practices.

Every circuit or product needs to be tested before being put to production and manufacturing. There are various ways of creating these test models. We at TGS also follow a certain process and with “PROTO” we would like to share this with you.

One learns how to design a circuit for a given application -> how to map the component holes on a general purpose PCB -> create blocks for minimum soldering -> optimize for minimum wire jumps and finally using track soldering to complete the circuit.

So if you thought this is not a utility or important enough to learn, think twice!

Note: - Prototyping means making a sample / model / example of the actual circuit or design in consideration.

Kit contents



1. General Purpose PCBS	2x
2. LEDs	6x
3. Slide Switch	1x
4. Turbo Switches	3x
5. 2-pin PBT Connectors	3x
6. Diodes	4x
7. Resistors	4x
8. 3V Battery Holder	1x
9. 9V Battery Snap	1x
10. 3V Battery	1x
11. 9v Battery	1x
12. LED Soldering Iron	1x
13. Soldering wire rolls	2x
14. Quick Flux	1x
15. De-soldering pump	1x

Course contents



1. Prototyping concept
2. Project application
3. Circuit design
4. Bread-boarding
5. PCBs introduction
6. Component Mapping
7. Solder optimization
8. Wire Jumps Optimization
9. Soldering practices
10. Track soldering

Duration



10 hours in total for learning and assembling.
Although the time duration can be managed according to requirements.
If a competition is required at the end, we can have that which will add another 01 hr. to the workshop.



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www.technogravity.com

Mumbai, India.

Contact us for any relevant information.