

Project Name

USB Mobile Charger

Presented By

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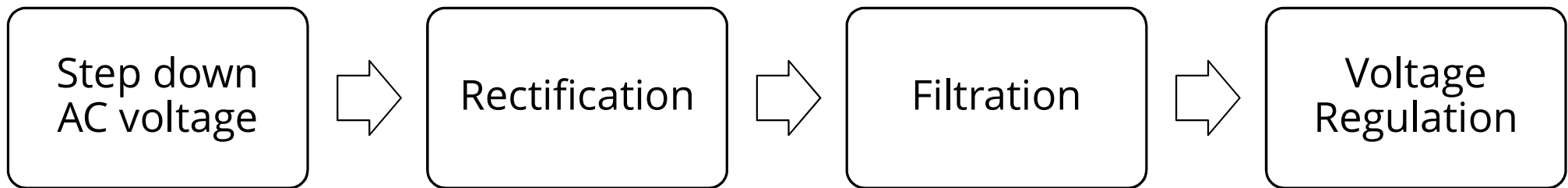
Mustafizur Rahman

Project Objectives

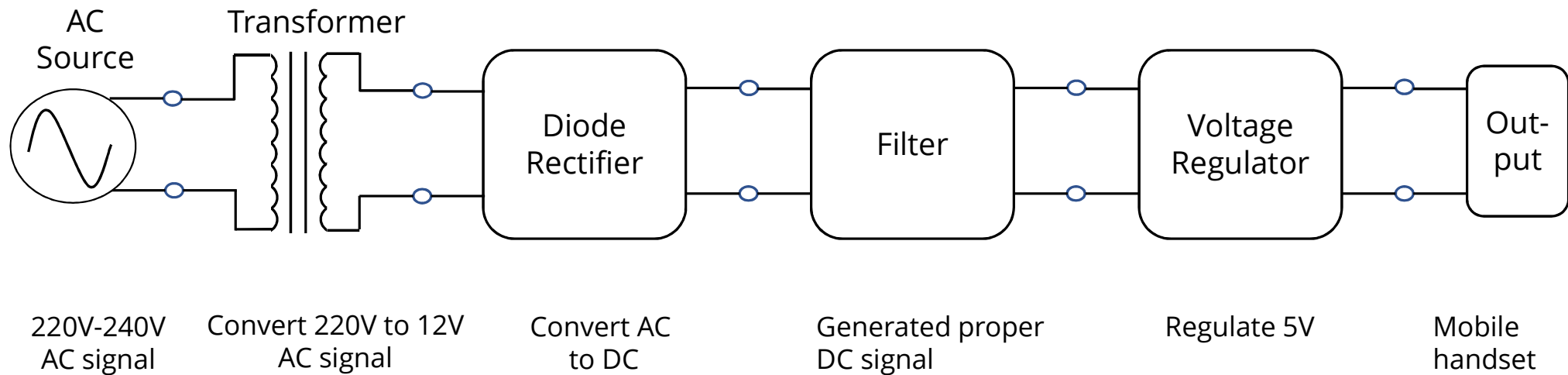
- ❖ This project is all about a cell phone charger.
- ❖ It can charge any kind of mobile handset.

Project Distribution

- ❖ Mobile phones generally charge with 5V regulated DC supply.
- ❖ We had to build a 5V regulated DC supply from AC supply which is 220V, since we used home electricity line.
- ❖ For the implementation of this project, we had to divide the work process in four steps. Such as,



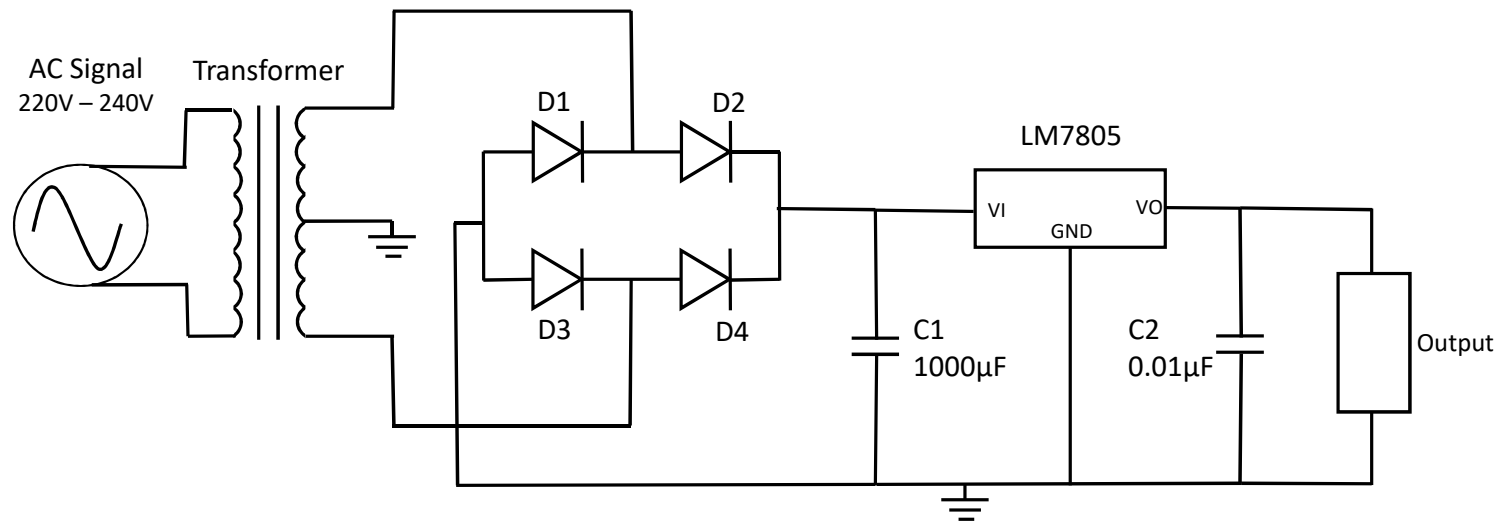
Block Diagram of the Project



Equipment's

Component Details	Specification
Step down Transformer	12Volt 3A
p-n Junction silicon diode	1N4007
Capacitor	0.01 μ F
	1000 μ F 25V
Voltage Regulator	LM7805
Breadboard	-
Plug, wires & data cable	-

Circuit Diagram



Difficulties Faces

- ❖ We faced our first difficulties when we tried to put the AC signal on breadboard as an input. Since we didn't have any signal generator, we had to use the home electricity line. That's why, we brought the plug, wires and connected them together. Finally, we set that input line with transformer and breadboard.
- ❖ Another simple difficulty was with the USB type A connector. This connector couldn't set on breadboard for its weird pin head. To solve this issue, we had to cut a data cable and connect it to the breadboard.

Future Recommendations

- ❖ This mobile charger circuit can be modified in such a way that it can charge more than one device at the same time.
- ❖ It can also be modified such that it can do multiple tasks. Such as, it can charge mobile device and run a motor parallel to each other.

Thank You Everyone!

ANY
QUERIES?