

ADVANCE FOOTSTEP POWER GENERATION **SYSTEM**

INTRODUCTION

Here we propose an advanced step-by-step system that uses peizo sensors to generate energy in human footsteps. The system allows for a platform for action. Peizo sensors are placed under the platform to generate energy in the steps. The sensors are placed in such a system to produce high output power. This is then given to our monitoring districts. A circuit is a microcontroller-supported monitoring circuit that allows the user to monitor power and charge the connected battery. It also shows the charging output and display on the LCD display. It also contains a USB mobile charging point where the user can connect cables to charge a mobile phone from a battery charger. So we charge the battery using power in the user's footsteps, expose it to the LCD using a microcontroller circuit and allow mobile charging to set.

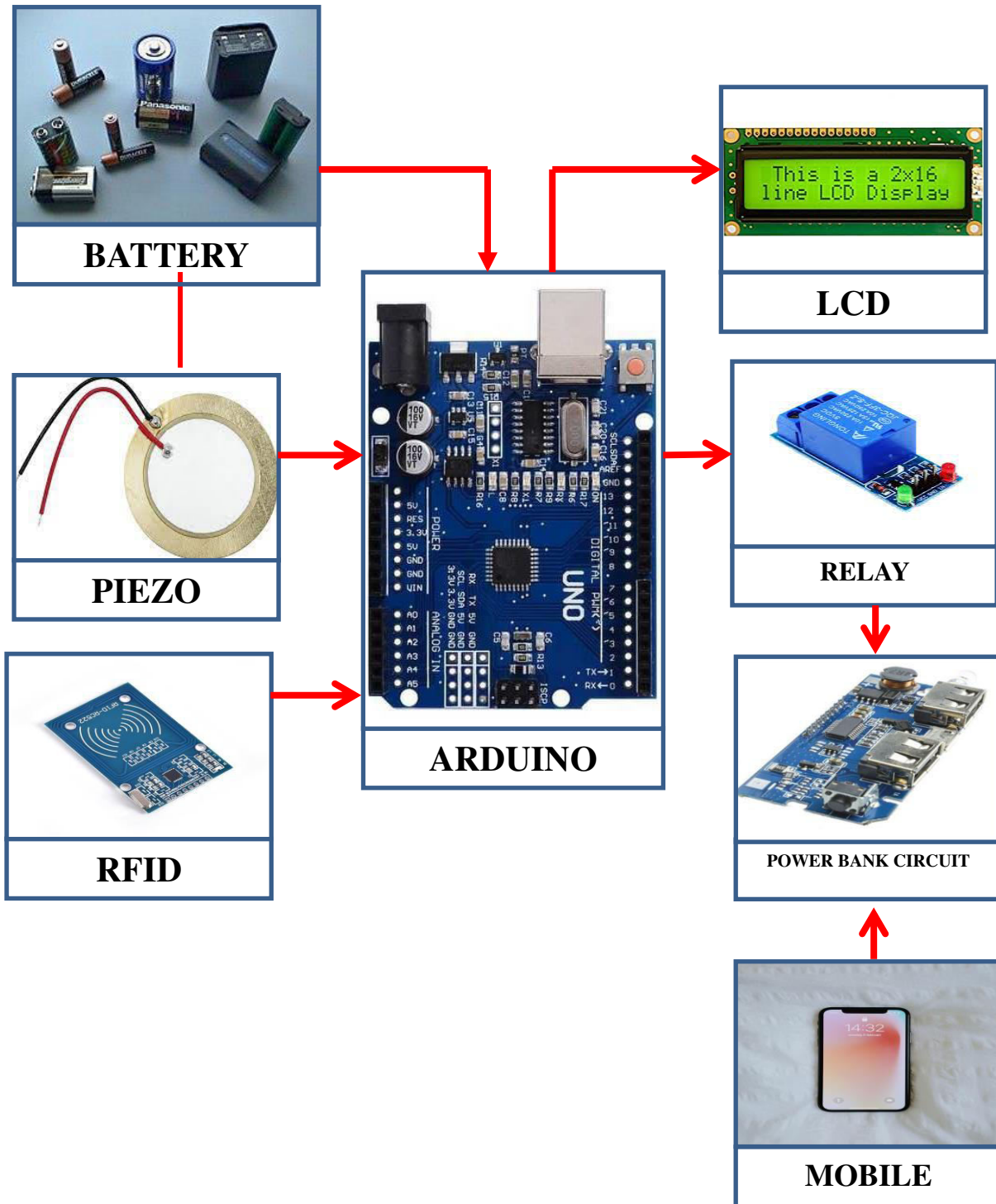
ADVANTAGES

- Self-producing-no outside power required.
- The system is reduced yet exceedingly touchy.
- It is Reliable, Economical, and Eco-Friendly.

DISADVANTAGES

- Care ought to be taken for batteries.
- It isn't reasonable for estimation in static conditions.
- It is not suitable for measurement in static conditions.

BLOCK DIAGRAM



COMPONENTS REQUIREMENT

HARDWARE SPECIFICATIONS

- Piezoelectric Crystal Material
- LCD
- RFID 522
- Amplifier
- Battery 3.7
- Mobile
- Arduinio UNO
- Power Bank Circuit
- Relay Module
- Connecting Wires

SOFTWARE SPECIFICATIONS

- Arduino IDE
- Proteus
- Programming Language: Embedded C

PROJECT KITS INCLUDES:

SELF LEARNER KIT

- Project **Documentation Data** in **Word File** (approx. 50-70 Pages).
- Project **Setup Troubleshooting & Doubt Solving** Support- via Skype & **Team viewer**
- **Access to Sun Robotronics** for Project **Explanation Tutorials**.
- Online Technical Support by **Social Portal/Video Call**.

READY TO USE KIT

- Project **Documentation Data** in **Word File** (approx. 50-70 Pages).
- Project **Setup Troubleshooting & Doubt Solving** Support- via Skype & **Team viewer**
- **No Access to Sun Robotronics** for Project **Explanation Tutorials**.
- Online Technical Support by **Social Portal /Video Call**.

ONLY COMPONENTS KIT

- Project **Documentation Data** in **Word File** (approx. 50-70 Pages).
- **No Troubleshooting and Doubt Solving Support**.
- **No Access** for Project **Explanation Tutorials**.
- **No Online Technical Support** by **Social Portal /Video Call**.

* Documentation – code circuit and diagram