

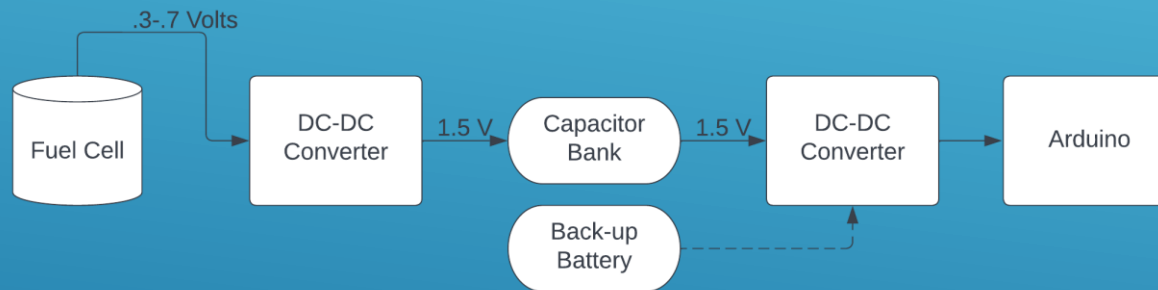
RENEWABLE POWER FOR BENTHIC MICROBIAL FUEL CELLS MONITORING



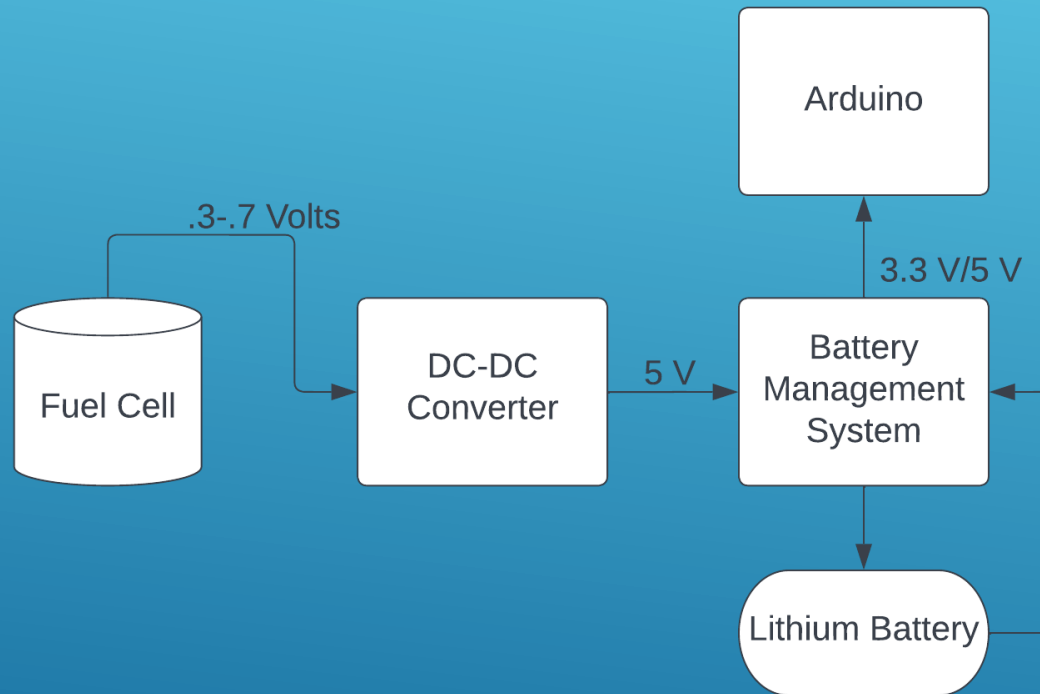
GRAPH OF FUEL CELL VOLTAGES OVER TIME

Several white lines of varying lengths and slopes are positioned in the bottom right corner of the slide, creating a modern, abstract graphic element.

CAPACITOR BASED POWER MANAGEMENT




- More Direct Powering of Arduino using Fuel Cell
- Capacitors will Smooth Power Delivery
- Capacitors Provide Storage for Excess Energy
- Simpler Electronics
- Better Suited for Low Power Applications



BATTERY BASED POWER MANAGEMENT

- Arduino is Powered by Battery
- Battery is Trickle-Charged by Fuel Cell
- More Resilient to Failure of Fuel Cells
- Adaptable to Larger Deployment, Either as Part of a Larger Lander or with More Connected Sensors
- More Complex Electronically

FURTHER QUESTION TO INVESTIGATE

- Power Draw of Arduino and Auxiliary Components
 - Polarization Curve
 - Different Cell Configurations
 - IC/Boards for Power Management
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- A series of four parallel white diagonal lines in the bottom right corner of the slide, slanting upwards from left to right.