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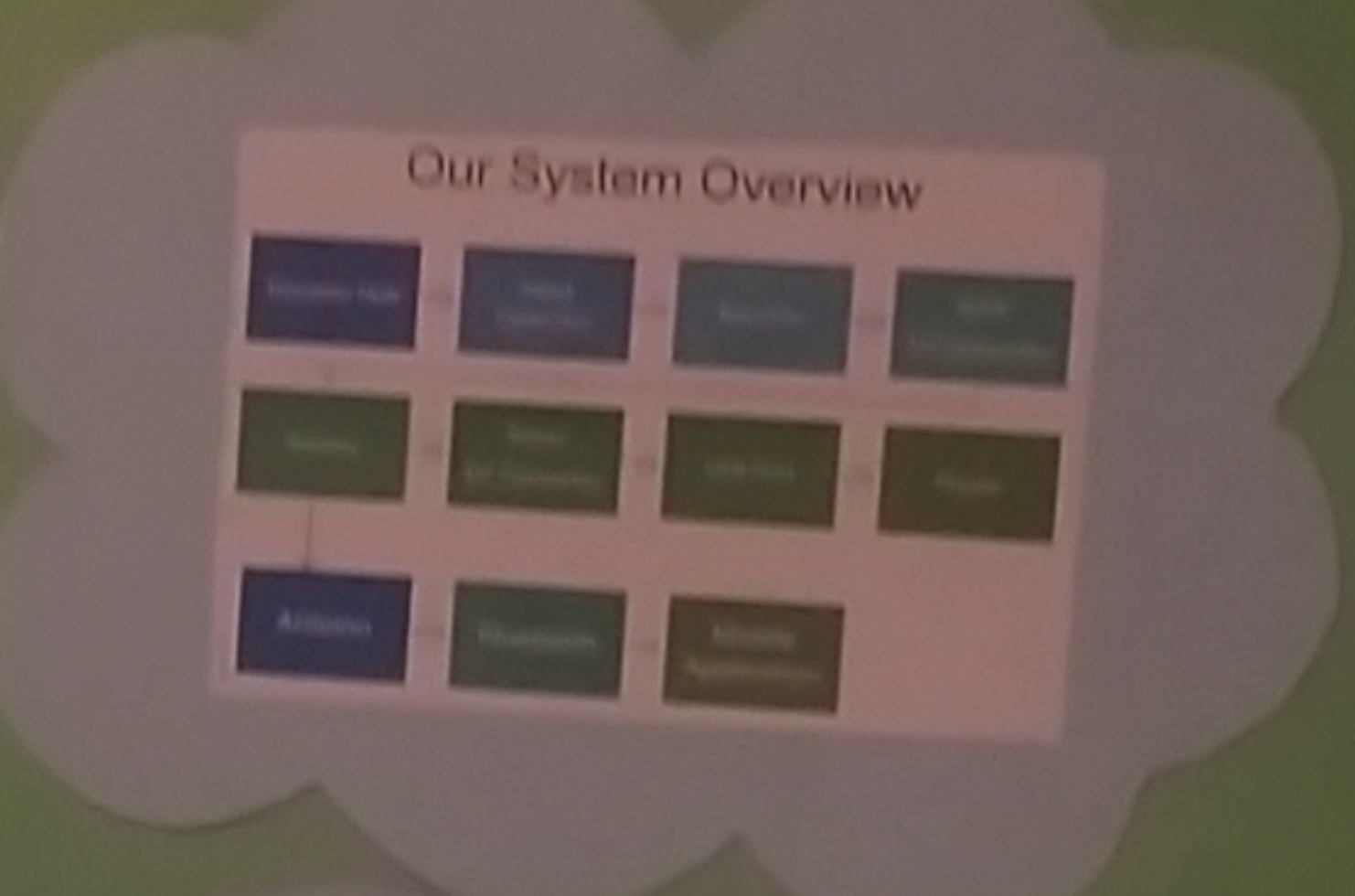
Self-Sustaining Battery Pack for Bicyclists

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We live in a fast-paced world, carrying most of our lives around with us in our electronic devices. With all the rush and excitement of our daily lives, most of us forget to charge our electronic devices - in fact, we're so busy creating energy that we don't get much of it back.

Allice has created Zylive, a self-sustaining, rechargeable and renewable battery pack that can be stored on bicycles, enabling users to generate and store energy as they go about their day.



What We Did

Our goal this semester was to implement the basic functionality of the three components - hardware, firmware and software.

Within hardware, we used a friction based dynamo to generate power, rectified the output, regulated the DC and charged the battery.

For Software, we created both an iOS and an android application to ensure future compatibility. Under firmware, we set up bluetooth connectivity for the arduino.

Currently on the Market

+ \$2000 + \$200

Our Target Price < \$100

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- ### Dynamo Parts
1. Friction Roller
 2. Dynamo Body
 3. Magnetic Steel
 4. Winding Support
 5. Spring Housing
 6. Coil
 7. Wrench
 8. Lug Plate
 9. Rear Cover

Prototype vs. Ideal Product

Prototype utilizes friction-based roller dynamo

Ideal Product incorporates all components seamlessly

Get your müve on with müve!

- Rechargeable Lithium-Ion Battery
- Pedal - Powered by a DYNAMO motor!