

# Sustainable Weedwacking

Sustainable Design - Group Project  
Fall 2011, Olin Year 3

Sustainable Design teaches how to bring **sustainability into the product design lifecycle**. We learn to use green design principles, conduct life-cycle analysis on an existing product, and strategize ways to improve the production processes to be more sustainable.

Aim: My team studied the Weedwacker, a gas-powered gardening tool primarily used by landscaping companies.

Design: To bring more sustainable practices to the weedwacking activity. We **studied users and developed personas of people who commonly use the Weedwacker**. We got their views on the positives/negatives on the product and how they use it. Then, we tore down the weedwacker and did a **Life Cycle Analysis** to see its effect on nature.

Finally, we brainstormed ways to make it a more sustainable product for our personas and came up with the **Universal Battery Pack, S2B2**. The S2B2 gives you a portable pack and removes the nuisance of a wire running-from-the-wall to an electric Weedwacker. And it is modular to attach to other lawn tools.

S2B2

