

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 to improve the production processes to be more sustainable.

Aim: My team, Green Wackin', 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** and got their views on the positives/negatives on the product. 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**.

S2B2

