



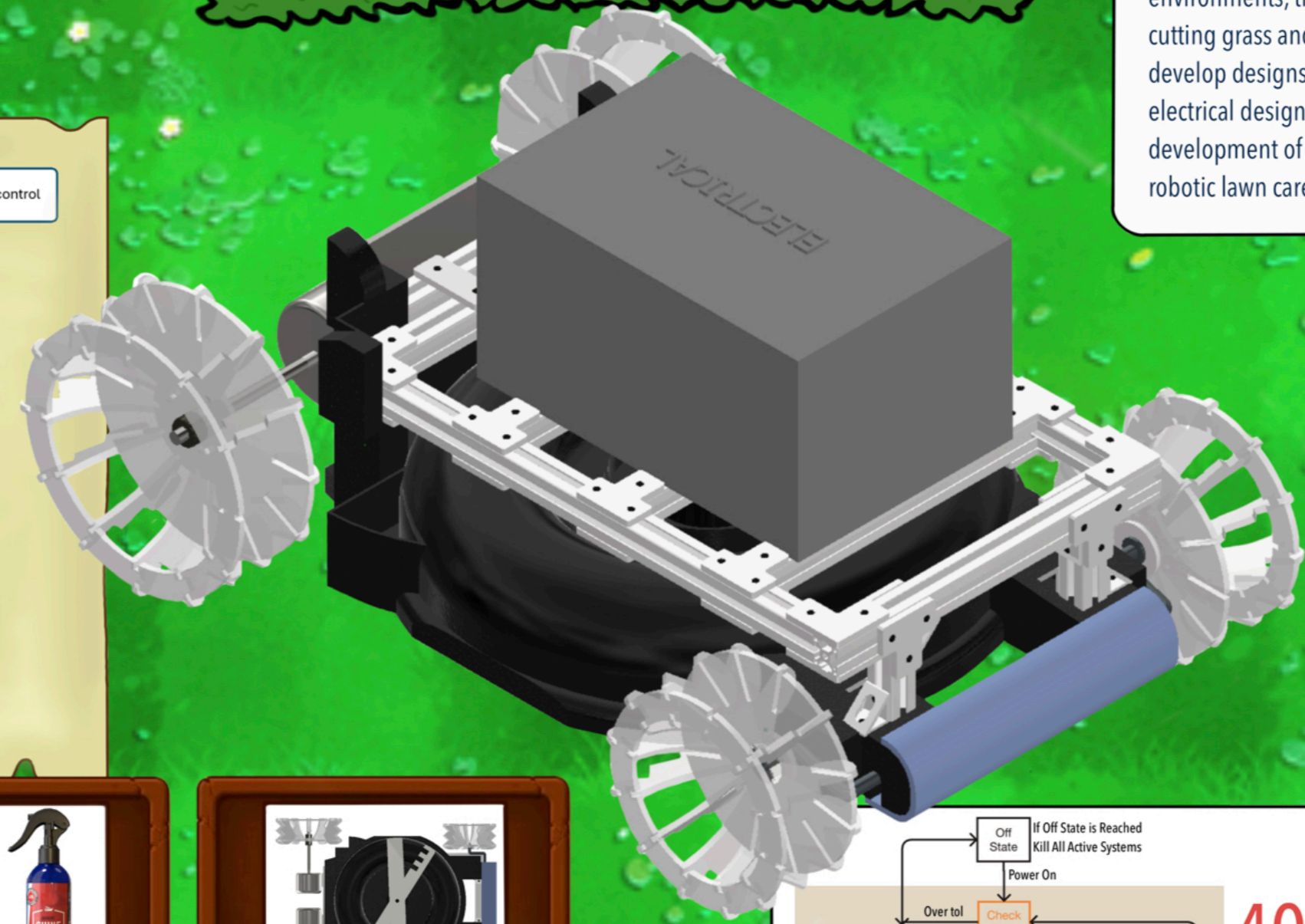
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LARRY

Lawncare Autonomous Robotic Rover for Yards

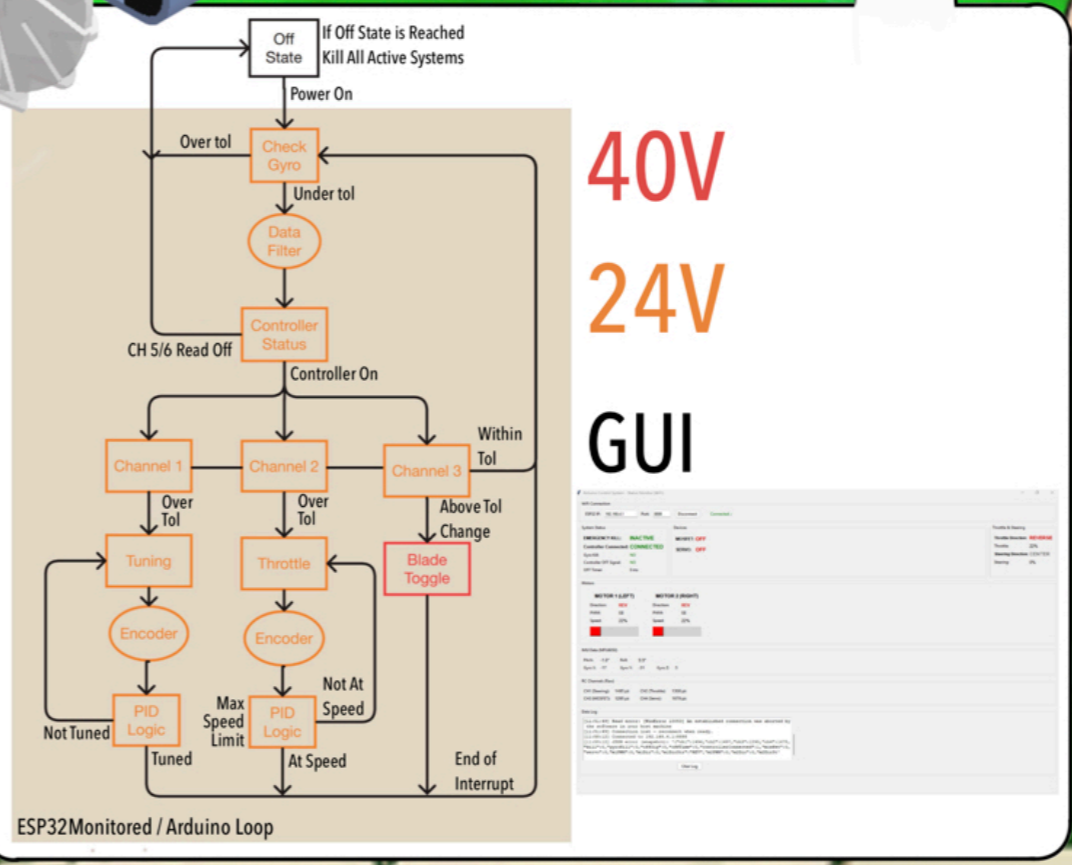
Current robotic lawn mowers on the market right now provide a solution for remotely cutting grass to improve lawn upkeep. However, there is a shortcoming in all these mowers currently being sold, that being incapable of preforming lawn care in a saturated environment. When performing in such environments, the current market solutions lack in traction and efficiency when cutting grass and preventing grass from clumping. The LARRY project aims to develop designs specifically to target these areas. The mechanical and electrical design of the LARRY project will serve as the steppingstone for the development of a low-cost autonomous solution to fill in the gaps of the robotic lawn care market.



Acrylic Wheels
Custom wheels designed for added traction on slippery, sloped terrain

Rubber + Hydrophobic Coating
Front rubber pushes off excess water prior to cutting, interior housing coating prevent wet grass from sticking and clumping

Dual Blades
X-Blade Design uses a high-lift blade on the bottom and mulching blade on top to finely cut grass clumps



- 24V Brushed Drive Motors
- RC Controller - 2.4GHz
- 40V Blade Stepper Motor
- 24V Motor Drivers
- Arduino Mega2560
- Relay - Blade Motor Toggle
- Accelerometer Chip - Live Gyro
- ESP32 Chip - GUI & Coms