SDSU College of Engineering

Wheelchair Mounted Disc Golf Launcher

DiscAbility

PVA Paralyzed Veterans of America Cal-Diego Chapter

Project Overview

Objective: To promote inclusivity and independence, our team developed a wheelchair-mounted disc golf launcher with accessible controls that allow users to launch discs at adjustable power and angles. The design enables paraplegic or quadriplegic individuals to safely and actively participate in the game of disc golf. The device features a universal mounting system designed to attach to any power wheelchair and can be easily assembled and installed.

Needs: The device must be lightweight and easy to assemble, can safely and consistently launch discs up to 100 feet, is durable and can last a whole game of disc golf, and lastly is compatible with wheelchair inputs such as a joystick and sip 'n' puff controls.

Meet the Team


Maddox Curley


Cody Marinshaw


David Aguilar


Miral Ahmed


William Salsberg


Andrew Gamez

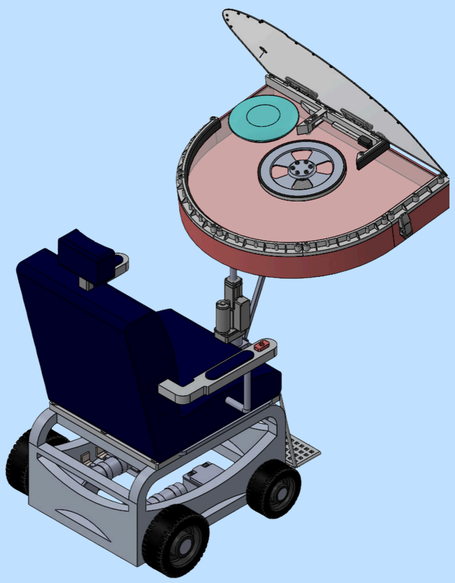

Devan Mayer


Juan Cruz

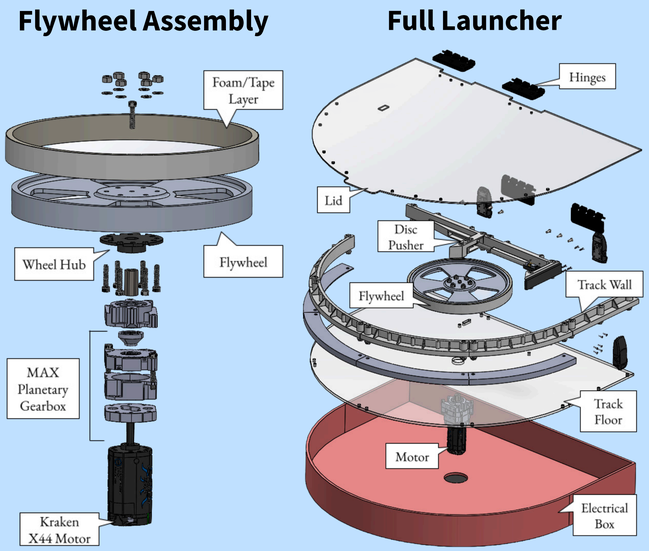

John Hayali


Hadi Alwakeel

CAD Assembly

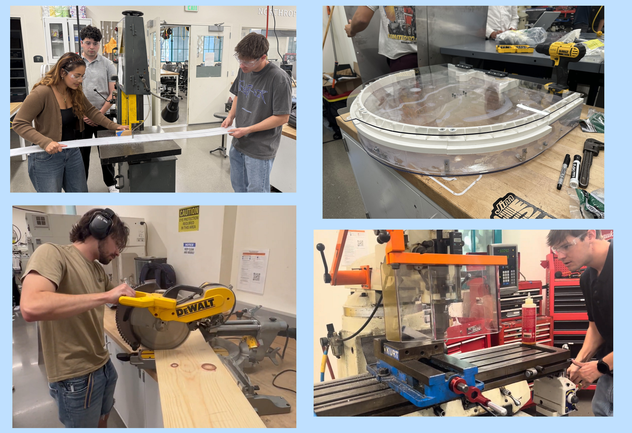


CAD Exploded View

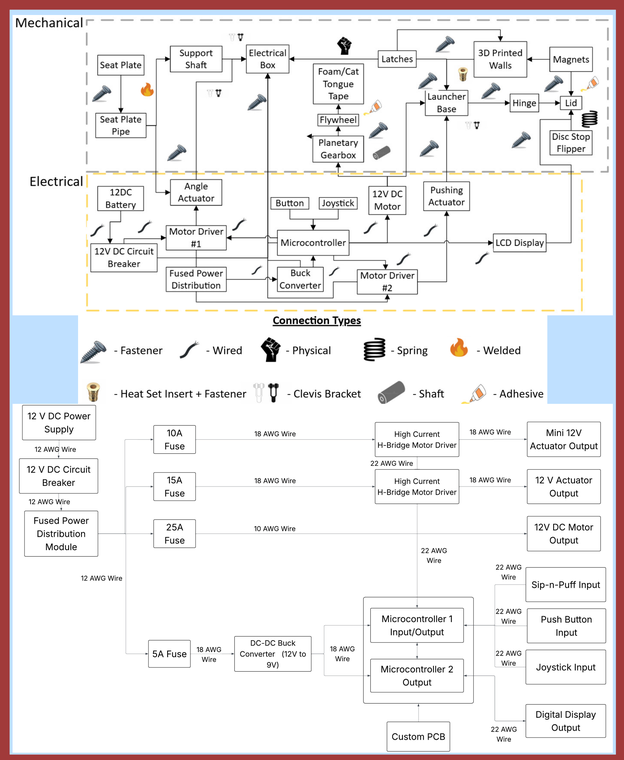


Testing

Manufacturing

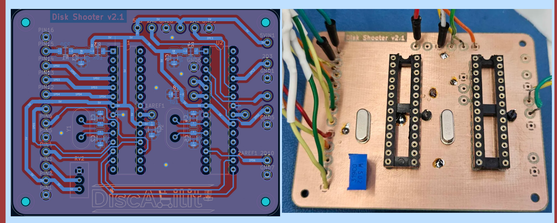


System Level Diagram

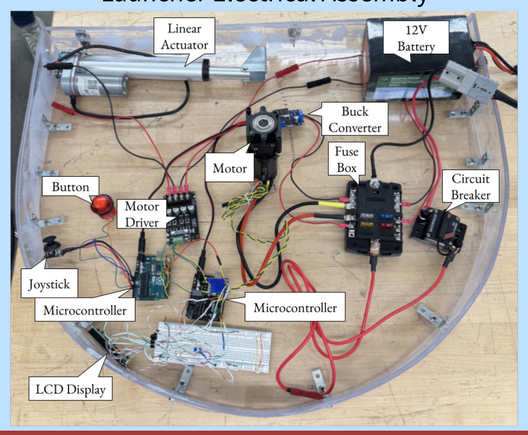


Electrical Design

PCB Design



Launcher Electrical Assembly



Acknowledgments

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