



Colorado Science and Engineering Fair

2025 Team Project Abstract Form

Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.

Title of Project: Sci-Fi In Reality

Team Leader's Name: Calvin Nabors

Team Member 1: Quin Dempsie

Team Member 2:

School and City: Bayfield Middle School

Sponsor's Name: Kris Mcsweeney

Category: Engineering

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

Abstract

Power armor is often thought about as a child to think how cool it is. But if real, would it even be able to help us? In our opinion they can help in everyday tasks however, the common man shouldn't have the power armor that Calvin and I have designed. This power armor is mainly used for construction, for those with disabilities, and for military efforts. In the construction industry, it will help lift heavy objects such as steel beams and wood that would be too hard for one person to carry effectively putting an end to more resource and energy-consuming machines like excavators. For differently abled individuals, it can assist with walking, standing, and even climbing stairs, allowing users to perform daily tasks that would otherwise be difficult or impossible. To test this we lifted various objects that weighed 8-50 pounds. We predict that the power armor muscles can lift to 220 lbs and the welds can hold a few hundred pounds. However, we are only going to lift a certain amount of weight due to the tech being experimental and certain welds lacking strength to limit injuries. Also this power armor could have limitless horizons like underwater formats, flying formats, and even aid in zero gravity formats. If this power armor can be harnessed to its full potential It could ultimately change the world. In short this has limitless potential.

We hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. We also attest that the above properly reflects our own work.

Team Leader's Signature: _____

Date: _____

Team Member 1's Signature: _____

Date: _____

Team Member 2's Signature: _____

Date: _____

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with your Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**