



Colorado Science and Engineering Fair

2024 Individual 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: Cheap ROV

Finalist's Name: Tidus Overkill

School and City: Genoa Hugo School, Hugo

Sponsor's Name: McKee Overkill


Category: Engineering (ENGR)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

The purpose of making the Trespasser is to make a cheap and reliable ROV. An ROV is a remotely operated vehicle. This can be anything that is wirelessly controlled. ROVs are used in NAVY operations to recover wreckages and missiles/bombs that enter a body of water, Marine biology to explore the deepest reaches of Earth's oceans, and have even ventured into the craters of active volcanoes. They are being explored in law enforcement as well. They can also be used in underwater photography and in conditions that are hazardous to humans. The engineering goals for the Trespasser are to submerge, perform a task, and then surface. The hypothesis is that with increased pressure (measured in P.S.I.), the ROV will travel further (measured in meters). The Trespasser was tested in an available infinity pool. The Trespasser worked on the first try but was aesthetically unappealing. It was sanded and painted mat gray after being tested to improve its appearance. Experimental results supported the original hypothesis, and the engineering goals of the project were met.

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

Finalist's Signature: 

Date: 2/22/24

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.