Mobile Computer Cart

Progress Report 2

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March 11, 2015
Overview

• Project Description
• Frame
• Sheet metal
• Wheels
• Monitor mount
• Logo
• Moving forward
• Progress Report
• Summary
Project Description

• Client: Dr. Srinivas Kosaraju

• Dr. Kosaraju is currently managing multiple student teams for capstone classes at Northern Arizona University. He is requesting for a mobile computer cart capable of traveling outside to perform experiments.
  – Must be adjustable
  – Weather proof
  – Cost under $500
Needs Statement

“The current available mobile computer carts are too expensive and are not designed for outside use.”

Goal Statement

The project goal is to design a mobile computer station that is less expensive than available marketed products, which can be operated in outside conditions.
Frame

• Progress
  – 90% completed
  – Members welded
  – Welds ground down

• Next Step
  – Add shelving supports
  – Attach legs
Sheet Metal

• Progress
  – 90% complete
  – All sheet metal attached to exterior

• Next Step
  – Grind and sand down welds
  – Fill in gaps with welding
  – Prepare for paint
Wheels

• Progress
  – Axles welded on
  – Wheels attached
  – Functioning properly
  – Holes cut for pins
  – Wheels can be removed by taking out pins
Monitor Mount

• Progress
  – Functions properly
  – Telescoping tubing attached to cart
  – Monitor attached to mount
  – Monitors fit inside cart
  – One person can adjust monitors

• Next Step
  – Test
  – Attach wires to monitors
NAU Logo

• Progress
  – Drawing produced in SolidWorks
  – Coded in MasterCam
  – CNC on Haas
    • 1/8 inch aluminum

• Next Step
  – Bolt to cart
Moving forward

• Lid / Door
  – Weld onto cart

• Plastic
  – Buy weather stripping
  – Attach plastic to door and windows

• Paint
  – Sand and prepare sheet metal
  – Test different paint on scrap sheet metal

• Testing
Project Progression
Summary

- Project Description: Mobile computer cart for Dr. Srinivas Kosaraju
- Frame is 100% complete
- Sheet metal installation is 90% complete
- Wheels are installed and easily removable
- Monitor mount is installed and functions as desired
- Logo is built and ready to be installed on the cart
- Complete sheet metal install and prep for paint
- Continue preparation for UGRADS on April 24th
References


• MonitorStand/dp/B002R9HQLI/ref=sr_1_3?ie=UTF8&qid=1415760377&sr=8-3&keywords=monitor+mount
