3D Cad Introduction

2D to 3D

Moving to 3D

- Methods to digitize- ProLiner, Laser, Scanner, etc.
- Where to learn- Online tutorials, Hire knowledgeable cad person in our industry
- Learn quicker with paying for instruction

Digitize an easy project

- Build confidence
- Digitize a simple object
- Spend time in Rhino / 2d to 3d
- 90% of 3d work is done in Rhino

Understanding 3D

- Visualize the object your digitizing
- Onsite notes
- Onsite pictures
- Check Proliner screen for your progress
- Mistakes I made in the beginning

Back in the shop

- Set up a Master file (read only) to import your project into
- Once project is imported to the master file you will change the name to customer or boat name
- Steps to a flat cut ready file

Setting up the Master file

- Content we use, Original-Master Model-Mesh-Weld Vertices-ReMesh-Outside- Mirror to inside
- We also include ready to cut pieces, identifying numbers, etc.

Is this all worth it?

- Costs to get started / What I did for SeaCanvas
- Rhino software $1000
- Proliner $28k
- Eastman plotter/cutter $100k
- Exact Flat software $6k
- PC computer w/30” monitor $2500

Worth it?

- Work files in your shop (controlled climate)
- Wind, cold or rain. Generally not a problem with the Proliner,
- Digitize a full bridge track to track enclosure inside the existing enclosure (rain days)
- Accuracy
- Final cut parts are exact, match marked and numbered

Worth it?

- We cut .040 vinyl mark U zips and view lines in ink pen, We also cut .080 Acrylic glass EZ2CY
- Repeat work, remake a panel or lost cover
- Accept alternative work in the marine or other industries
- Increase revenue.
- Don’t hire another employee, let the plotter work for you