

# Matthew Haar

Designer

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<https://casualwaist.github.io/>



## Skills

Product Design | Python Programming | 3D  
CAD/CAM | CNC Machining | Fabrication |  
Process Design | Rapid Prototyping |  
G-Code Programming including Macros | Manufacturing Automation

## Experience

### **PRODUCT DESIGN & FABRICATION - A&A SIGNS INC – 2008-2022**

Generated designs for new products and technologies as well as developed the standards by which those products were manufactured. I was also responsible for Quality Control and Testing to ensure every part was ready to ship.

Produced rapid prototypes with the operation of on-site CNC Machines, Industrial 3D Printers, Automotive Paint, Sheet Metal Fabrication, and a variety of common shop tools.

Created software tools that automated G-Code creation and aggregation. These tools allowed our operators to skip software transfers and increase our workflow capacity. This required a detailed mathematical understanding and knowledge of Bezier Curves as well as Biarcs.

I built a company wide internal system that I was solely responsible for designing, testing, debugging, and maintaining. This system ran on a local server which I configured to fetch data from a web based api, use that data to automate file creation, display various live statistics to screens around our workspace, alert employees of responsibilities, and help organize our work schedule. This server generated web pages that other employees could use to move jobs along our workflow and helped streamline job visibility, progress, and organization.

I've created working mechanisms that are robust while remaining inexpensive to produce that are still in regular use in spaces all along the Gulf Coast.

## Software

| Rhino 3D | Blender 3D | Solidworks 3D | Adobe Illustrator | FlexiSign | Gerber Composer |  
| Kern K7 | Color Byte RIP | EnRoute | ArtPath | Cura | ShopVox | PyCharm | SketchUp |