SAHIL DHAWAN

DESIGN ENGINEER

3D Designer with a diverse set of skills in multiple fields of art and technology. Experienced in managing projects of different priorities simultaneously, coordinating across teams, and maintaining digital systems.

TECHNICAL SKILLS

- 3D Modeling
- 3D Printing
- Design Thinking & Ideation
- Product Development
- Prototype Development
- Value Engineering
- Permanent and Temporary Fixtures
- Retail Assembly Sheets
- Plastic Works/Metal Works/Graphic Works
- Corrugated Displays and Packaging
- Production Artwork
- Graphic Design
- Photography
- Website Design

TECHNICAL TOOLS

- Autodesk Inventor
- AutoCAD
- SolidWorks
- ArtiosCAD
- FreeCAD
- Blender
- Adobe Creative Suite
- Affinity Creative Suite/Canva
- Da Vinci Resolve
- Python/Object-Oriented Coding
- Google Workspace/MS Office

WORK EXPERIENCE

DESIGN ENGINEER (Full-Time)

Ryan Scott Displays, High Point | Jul 2026 - Present

- Work with large brands such as **YETI**, **Honda**, **Husqvarna**, **Sprints**, and **Oakley**/**Luxottica**.
- Dynamic parameter-focused 3D modeling using AutoDesk Inventor workflows and iLogic functionality.
- Modeling of cost-effective and flat-packaged corrugated, MDF, and sheet metal display designs.
- Design, fabricate, and post-process program concepts from the render/prototype stage to final product.
- Create unique overviews, graphic/fabrication production files, and assembly sheets for each program.
- Adapt to quickly changing timelines and delivery schedules through project management tasks in Asana.
- Assist with photo editing and graphics work using Adobe Photoshop and Adobe Illustrator when needed.
- Maintained and repaired two Raise3D Pro 2 Plus 3D printers, which had previously been out of commission for 2 years, to a working state.

COMMUNICATIONS DIRECTOR (Part-Time)

North Carolina Tenants Union (NCTU), Remote | Jul 2025 - Present

- Design promotional content such as union logos, social media posts, flyers, banners, and newsletters.
- Promoted from **Volunteer to Communications Specialist to Communications Director**.
- **Re-branded organizational design scheme** with feedback from Executive Director.
- Collaborating with staff to create fundamental resources, such as NCTU's first annual report document.
- Lead website redesign and maintain content via WordPress, prioritizing accessibility of information.
- Research housing rights and common tenant issues to design educational social media infographics.

MEDICAL SIMULATION SPECIALIST (Full-Time)

Mountain Area Health Education Center (MAHEC), Asheville | Dec 2020 - Nov 2021

- Designed and fabricated medical training parts (tracheas, pelvis apparatus, etc.) **in-house to reduce costs**
- Created parts and tools through FreeCAD and rapid prototyping with an Ultimaker S4 3D printer.
- Operated medical mannequins for doctors and nurses to practice medical procedures.
- Regular maintenance of an Ultimaker S4 3D printer.

EDUCATION

- **University of North Carolina at Greensboro | Aug 2022 - May 2024**
  M.A. Mathematics, Concentration in the Mathematical Fundamentals of Data Science

- **University of North Carolina at Asheville | Aug 2014 - Dec 2018**
  B.A. Mathematics, Concentration in Applied Mathematics, Minor in Computer Science