

Mechanical engineer specialized in automobile manufacturing looking for a position where I can apply my creativity. Experienced in the Design Thinking process from brainstorming to design to hands on development and manufacturing. I enjoy learning new things and feel delight in accomplishing new endeavors. I strive to do the best job I can, while always improving. For these reasons, I would be an asset to any team.

Portfolio:

<https://georgerisca.github.io/website/pages/portfolio.html>

Strengths:

- ◆ Drafting, Design, CAD/CAM, Fluid Simulations, High Poly Mesh Modeling, Organic Modeling
- ◆ Gas Vehicle Systems, Electric Vehicle Systems, Li-Ion Battery pack manufacturing, Electrical Wiring
- ◆ Laser welding, TIG, Spot welding, Soldering
- ◆ Texture & Surface repair
- ◆ Composite work with Fiberglass, Carbon Fiber, Epoxy Resins, Mold Making with Silicone / Polyurethane resins.
- ◆ Mechanic skills
- ◆ 2D Design, Graphic design, Advertising design, Photography / Videography
- ◆ Operating Forklifts, Delivery Vehicles, Proficient with manual & automatic transmissions

Software Knowledge:

|            |                      |                                 |
|------------|----------------------|---------------------------------|
| AutoCAD    | Unreal Engine 4      | Microsoft Office                |
| Inventor   | Zbrush               | Flow Design                     |
| Fusion360  | Blender              | Windows/Linux/Macintosh systems |
| SolidWorks | Adobe Creative Suite | HTML & CSS                      |

**PROFESSIONAL EXPERIENCE**

**Sagaris Group Inc.**

Jun 2016 to Present

**Engineering Assistant, Lead CAD Designer**

Part of a small team that works on a variety of projects. This includes research, CAD design, as well as hands on work such as welding, grain repair, use of power tools, fine tools, operating of a forklift, driving a delivery truck, general shop maintenance.

- Repair of cracked Instrument Panel nickel slush tools. Involving laser welding, benching and texture reconstruction, using fine dremels under high power microscope to reconstruct leather texture. Tools are then sandblasted to the required gloss level before final delivery.
- Lead CAD Engineer: Designed seal plates, powder boxes, and frames used in slush mold manufacturing. Converted designs for sheet metal and prepared sheet metal for CNC water jet/laser cutting. Worked closely with clients and participated in weekly meetings.
- Troubleshoot and Repair of IP spray heating tools, foam tools. Required removal of old heating elements & epoxy, cleaning aluminum tool and installing new heating element.
- Support in production launch of nickel slush tools and calibration of powder boxes and seal plates to nickel tool – YanFeng, Faurecia, KTX America
- Worked on a research project developing silicone molds of high detail nickel tooling for electroplating. Required mixing epoxy, use of fiberglass, pouring silicone, and developing frames to aid in research.

- Special strengths: Being able to work hands on while also having experience and understanding regarding 3D CAD data. This puts me in a unique position to problem solve and not become compartmentalized in my work.

### **Cheyenne Express Inc.**

Jun 2015 to Aug 2015

#### **Mechanic Helper**

- I began my employment while Cheyenne Express Inc. was moving into a new building. In the first month, my work consisted of cleaning, moving, and organizing a full mechanic's shop used in the repair and maintenance of semi-trucks.
- General workshop maintenance: Assisted in installing air compressor and air lines throughout the shop
- Semi-truck maintenance: Included changing batteries, tire changes, cleaning, retrieving tags, and driving short distances / parking of semi-trucks.

## **EDUCATION**

**COLLEGE FOR CREATIVE STUDIES**, Detroit, MI

*Advertising Design*

2013-2015

**“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IASI**, Iasi, Romania

*BS in Mechanical Engineering with specialization in Automobile Manufacturing*

2016-2021

#### **Languages:**

- ◆ **English: Native (USA Citizenship)**
- ◆ **Romanian: Working Professional (Romanian / EU Citizenship)**