

GEORGE A. RISCA

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Link: [Portfolio - George Risca](#)

Mechanical Engineer with a unique adaptability and a passion for learning new ideas & concepts. I excel at practical hands on work and turning ideas into reality. Through my studies, professional work, and personal projects I have gained confidence and expertise across a broad array of disciplines; From creative work such as designing prototypes & using CAD tools, to hands on manufacturing, fabrication, assembly & testing. I am looking to join a team environment in which I can learn, grow, and apply myself to help realize projects and solve problems.

Education:

“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IASI, Iasi, Romania
BS in Mechanical Engineering with specialization in Automobile Manufacturing
2016-2021

COLLEGE FOR CREATIVE STUDIES, Detroit, MI
Advertising Design
2013-2015

Languages:

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

- ♦ **Automotive vehicle systems** – General understanding & hands on mechanic experience
 - ♦ **Electric vehicle systems** – General understanding & hands on experience / assembly
 - ♦ **Batteries** – Li-ion battery pack assembly, testing & general electrician skills
 - ♦ **CAD** – 2D/3D drafting, design, stress analysis, fluid simulations, high poly mesh modeling & Rendering
 - ♦ **Fabrication** – Soldering, Laser Welding, TIG, MIG, Spot welding
 - ♦ **Composite Materials** – carbon fiber / fiberglass & strengthening with resins.
 - ♦ **Mold Making** – Creating negative models with silicone & casting of polyurethane resins
 - ♦ **Project Management** – Organizational skills & planning for deadlines / allocating resources
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Software Knowledge:

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

WORK EXPERIENCE

Sagaris Group Inc.

Jun 2016 to Sept 2022

Lead CAD Engineer / Engineering Assistant

Part of a small team that worked on a wide variety of projects. This includes research, general problem solving, 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. Final preparations & sandblasting 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 models 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.
- Supported 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 proficient with hands on work while also having experience and understanding regarding 3D CAD data. This put me in a unique position to problem solve without becoming 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.