

Veronica Spencer

Houston, TX, 77068

www.veronica-spencer.com

Versatile design engineer with 4-year background designing consumer products and developing intellectual property materials. Proficient in CAD and graphic design software. Polished in building digital models of concepts, creating prototypes, and selecting appropriate materials and methods for manufacturing.

EXPERIENCE

Industrial Design Strategist

Jun 2022 – Dec 2022

Rugged Robotics – Contract, Houston, TX

- Expanded Rugged Robotics' brand to include marketing strategies and a robust visual brand language that reinforces guiding company values and long-term business development strategies.
- Generated a comprehensive mental model detailing a path from existing Robot As A Service (RAAS) model towards the aspirational Product-Service System by analyzing competitive landscape, user experiences, customer feedback, and industry standards.
- Developed and implemented outward facing aesthetics, finishes, and features that exceeded customer expectations and merged advanced technological capabilities with strict volumetric and technical requirements.
- Instituted a flexible and scalable human-robot interaction architecture that compliments existing construction communication practices and conveys complex information without overwhelming the user.

Mechanical Design Engineer/Owner

Apr 2018 - Present

Fantastech Designs

- Bridged communication lapses in client organizations via interdisciplinary experience in combination of clear and thorough documentation.
- Utilized fundamental knowledge of engineering applications, computational analysis tools, user-centered design methods, specification regulations, competitive product specifications, patents and industry trends to drive concept development.
- Generated engineering and technical documentation for client use in scaling conceptual design towards market launch.
- Served clients in the following industries: deep sea robotics, housewares, feminine hygiene, home improvement, medical devices, cosmetics, fashion, and heated tobacco products.

Design Engineer

Sep 2019 - Mar 2021

Wieland Copper Products, Pine Hall, NC

- Consolidated, organized, and archived tooling and equipment drawings from pool of over 80,000 system-wide drawings.
- Created parts for various fabrication methods, including machining, casting, sheet metal fabrication and injection molding.
- Developed and implemented SOPs for mechanical design and drawing practices within the maintenance department.

- Initiated plant transition of maintenance assets to SAP to streamline machine shop to inventory pathways.

Capstone Design Teaching Assistant

May 2017 – Jan 2019

Georgia Institute of Technology, Atlanta, Georgia

- Taught graduating seniors about design, prototyping, and presentation methodology as related to individual, highly specialized projects.
- Guided intellectual property and emerging technology research to assist in early stage concept development among interdisciplinary teams.
- Mediated design consultations and fabrication plans between senior design teams, instructors, sponsors, shop personnel, and school administrators.

Advanced Concepts Engineering Intern

May 2016 - Aug 2016

Radio Flyer, Chicago, IL

- Investigated combinations of physical-digital inputs with respect to emerging technology and software applications to manipulate and synthesize data for research projects.
- Prepared conceptual designs and specifications, including hands-on fabrication, material and performance validation.
- Evaluated results against design and customer standards and prepared information to parse up the management chain.

Prototype Lab Engineer/Instructor

Aug 2013 - Apr 2019

Invention Studio at Georgia Tech, Atlanta, GA

- Instructed and monitored student, staff, and faculty patrons on the proper and safe use of available tools.
- Advised users on best practices for design and fabrication as related to specialized academic, research, and personal projects.
- Performed light to medium complexity repairs on manufacturing and fabrication equipment.
- Reviewed technical documentation to complete equipment maintenance and repair.

EDUCATION

Industrial Design

Aug 2015 - Apr 2019

Georgia Institute of Technology, Atlanta, GA

Bachelor of Science (B.S.) - Mechanical Engineering

Aug 2010 - May 2015

Georgia Institute of Technology, Atlanta, GA

SKILLS

2D & 3D CAD, Graphic Design, Mechanical Aptitude, Engineering Analysis, NX, Solidworks, Fusion 360, Adobe Illustrator, Mechanism Design, Intellectual Property Research and Preparation, Universal Design, Design for Manufacturing, Low and Medium Fidelity Prototyping

ORGANIZATIONS

Society of Women Engineers (SWE); Out in Science, Technology, Engineering, and Mathematics (oSTEM); Out to Innovate (formerly NOGLSTP)