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Jessica Boyers

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Summary: Mechanical Engineer with Master's Degree with proven industry experience in R&D, entrepreneurship, project management and administration, safety planning, a wide variety of maker tools, working with students on technical subjects, and managing a university lab.

Education: **Rochester Institute of Technology** - Rochester, NY. **August 2014 – May 2019**

GPA: 3.98/4.00 **Master's of Engineering in Mechanical Engineering, minor in Economics**

Employment:

Future Hooman* - Durham, NC. **April 2025 – Present**

Designer, Engineering Consultant, Fire / Electronic Safety Coordinator

- Designing and fabricating mechatronic interactive art exhibit piece.
- Providing engineering guidance to other artists for a variety of mechanical and electronic art pieces.
- Creating fire safety and risk management plans, reviewing custom electronics for best practices.

Sovereigness Designs - Morrisville, NC. **January 2025 – Present**

Owner and Sole Proprietor, Maker

- Small business selling highly customizable mechatronic designs, devices, and décor at small scale.

Teleflex - Morrisville, NC. **December 2020 – December 2024**

Mechanical Design Engineer

- Technical lead responsible for entire new product development cycle of medical devices, from concept to commercialization. Focus in concept generation, creating designs and drawings in SolidWorks, building and testing prototypes, analyzing test results, and making design decisions in accordance with best practices and regulatory requirements. Documented and communicated results effectively to project stakeholders, generated multiple patents.
- Managed multiple projects simultaneously including management of external vendors in design and manufacturing partnerships.

Rochester Institute of Technology - Rochester, NY. **February 2018 – December 2018**

Lab Manager, RIT Student Print Center

- Managed 3D printing student lab including troubleshooting and maintaining machines, keeping supplies stocked, working with students teaching how to use machines, how to design parts for printing and select materials, and how to make use of different 3D printing capabilities.

Energizer - Asheboro, NC. **June 2017 – August 2017**

Mechanical Engineer

- Designed automated machinery improvements, streamlined changeover procedures, and determined requirements for retooling packaging lines leading to significant reduction in down-time.

Wyman-Gordon - Grafton, MA. **May 2016 – January 2017**

Mechanical Engineer Rotational Program (R&D, Quality, Manufacturing)

- Developed improvements to critical forging-related processes such as part and die heating, inspection, and machining. Designed and tested inspection equipment improvements.

Skills and Proficiencies:

Software: Microsoft Office Suite, CAD (SolidWorks, OnShape), MATLAB, Minitab, Agile PLM

Hardware: 3D printing; Microcontrollers, electronics and soldering; Fixturing and test equipment; Lathe, mill and laser welder; Woodworking power tools,

Other: GD&T, Lean 6σ Yellow Belt. Sheet metal design, IM design. Excellent presentation and communication skills. Project management experience. First Responder / Stop The Bleed safety training.