

**PROFESSIONAL  
SUMMARY**

Dedicated mechanical engineer with experience and technical expertise in the design of a wide variety of automated industrial machinery for automotive, medical, and commercial industries. Skilled at formulating, implementing, and supporting equipment designs, while producing specifications and researching process improvements;

**SKILLS &  
ABILITIES**

- 12+ Years SolidWorks Experience
- AutoCAD
- Design for Assembly/Manufacturing
- CNC programming (G-Code)
- Technologies for automated assembly
- Toyota Production System (via Alcoa)

**EXPERIENCE****Q MASON DESIGN, HENDERSONVILLE TN****Freelance Design Engineer**

Sept 2018 – Present

Designing automated equipment, consumer products and processes for a variety of companies and individuals.

**HAHN AUTOMATION, HEBRON KY****Senior Design Engineer, Remote**

Aug 2016 – Sept 2018

Responsible for the design of automated machines, including creating 3D and 2D detail drawings, interfacing with electrical designers and programmers, and supporting the machines through their build. These machines are incredibly varied and include laser cutting/welding, marking, leak testing, ultrasonic welding, hydraulic pressing (with force-distance monitoring), robotic assembly tasks, cleaning, gluing, and many other technical assembly processes.

**Mechanical Engineering Manager**

Jan 2014 – Aug 2016

Led and scheduled the mechanical design team (10 engineers), evaluated and approved designs, worked with inter-disciplinary teams to solve technical problems that were escalated from design and build teams or customers.

**Mechanical Design Engineer, Sr. Mechanical Design Engineer**

Feb 2007 – Jan 2014

Similar to design engineer position above, starting from new hire, with increasing experience and responsibilities through the years.

**HOWMET CASTING (ALCOA), LAPORTE IN****Product Engineering Co-op and Manufacturing Engineering Co-op**

May 2002 – Aug 2006

Evaluated prints and specifications for aerospace super-alloy castings, wrote G-Code programs for a 5-axis machining center and waterjet cutter and helped to develop machine specifications for purchasing new automated equipment.

**EDUCATION****PURDUE UNIVERSITY, WEST LAFAYETTE, BSME**

Focused on courses in machine design, robotics, and control systems.

**INTERESTS**

Maker/tinkerer – 3D printing to casting at home, Arduino programming and flying drones.

**REFERENCES**

**AVAILABLE UPON REQUEST**