Jonathan Sammon

jssammon@gmail.com
www.jssammon.com
(216) 392 4189

Education

Northwestern University: Evanston, IL

Sept 2013-June 2018

- Robert R. McCormick School of Engineering and Applied Science
- Dual Bachelors of Science in Manufacturing and Design Engineering and Mechanical Engineering
- Certificate: Cooperative Engineering Education Program (Co-Op)
- Honors: Cum Laude, Tau Beta Pi, Pi Tau Sigma

Experience

Mechanical Engineer (new product development), Marmon Foodservice Technologies: Carol Stream, IL

July 2018-Present

- Conduct observational user studies in restaurant kitchens to develop value propositions for new equipment
- Design prototype gas-fired cooking appliances for eventual application in a commercial kitchen environment
- Evaluate prototypes using design of experiments methodology
- Analyze and present experimental data; propose and execute design improvements based on findings
- Interact directly with a global quick-service brand to demonstrate equipment and certify it for use in stores
- Review designs and components for compliance with NSF, UL, CSA (ANSI), CE, NFPA, and other standards
- Document inventions for patent filing (six patents currently pending)

Engineering Intern, Marmon Foodservice Technologies: Carol Stream, IL

June-Sept 2017

- Conducted time studies and line balancing, reducing cycle time on one assembly line by an estimated 35%. Authored a VBA-based application to make future line balancing analysis faster and more efficient.
- Created over 21 industrial design sketches, flowcharts, and other visuals to present a series of novel methods and devices developed by myself and other interns to improve the sandwich-making process (one patent pending)
- Designed, built, and tested several works-like prototypes of devices to hold, heat, and measure hot coffee

Engineering Co-Op, S&C Electric Company: Chicago, IL

5 quarters spread over 2015-2017

Polymer Products Department:

- Redesigned an existing injection mold to correct multiple issues with producibility, datum location, and part ejection; created or modified over 100 individual parts

Underground Switching & Protection Department

- Investigated assembly issues such as interferences; redesigned parts or tools to correct issues
- Coordinated outside materials testing and purchasing of new equipment

US Manufacturing Department

- Developed and taught best practices for programming formed sheet metal parts for a new press brake
- Operated manual mills, lathes, table grinders, and other equipment to produce fixtures and tools as part of a two-month rotation working under professional toolmakers in a manufacturing environment

Technical Skills

- Computer-Aided Design (Solidworks, NX, OnShape, SolidEdge)
- Computer Programming (C, PHP, SQL, VBA, MATLAB)
- Rapid Prototyping (Foamcore, 3D printing, Laser-cutting, CNC)
- Design of Experiments (including regression analysis)
- Mechatronics prototyping (sensors, motors, and electronics)
- Tolerance analysis (GD&T)

Soft Skills

- Technical writing
- Project management
- Patent analysis and documentation
- Graphical presentation of data
- Industrial design
- Human-centered design