Gabe Goodman

Portfolio:
https://ggoodman.me/

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Education

Northeastern University Boston, MA May 2019
Candidate for Bachelor of Science in Bioengineering
Concentration in Medical Devices, Minor in Materials Science and Engineering
GPA*:** 3.7 ***Honors: University Honors Distinction, *magna cum laude*
Relevant Courses: Design of Medical Devices; Biomaterials; Design of Biomedical Instrumentation; Design of Implants; Biomechanics; Bioelectricity; Transport & Fluids; Biomolecular Dynamics; Quantitative Physiology; Bioengineering Instrumentation; Engineering Design

Relevant Experience

Bose Corporation – Bose Hear, Framingham, MA January-August 2018
Medical Device Engineering Co-op

- Informed the development of a direct-to-consumer hearing aid as a cross-functional engineer
- Designed mechanical components within complex assembly geometries using Siemens NX
- Drafted injection-molded plastic parts in CAD, prototyped using 3D printing and Protomold
- Facilitated vendor-side manufacturing of cosmetic components according to design specifications
- Fabricated looks-like, feels-like models for wear and usability studies using rapid-prototyping
- Conducted preliminary wear tests for fit and comfort; collected, correlated anthropometric data
- Coordinated DFA materials for prototype builds; part design/fabrication, vendor communications

Philips Healthcare – Connected Sensing, Boston, MA January-December 2017
Mechanical Engineering Co-op

- Applied knowledge of material properties in designing a biocompatible, wearable biosensor
- Utilized rapid-prototyping techniques to fabricate samples for wear and usability studies
- Drafted and maintained mechanical models and drawings for DHF/DMR using SolidWorks
- Worked closely with engineering and industrial design to prototype iterative device mockups
- Evaluated potential component suppliers' manufacturing processes, material inventories
- Executed preliminary production samples of vacuum-formed foams and molded polymers
- Facilitated discussion between marketing, design, and engineering re: wants vs. needs
- Interfaced with clinicians to gather customer requirements and technical feedback
- Operated under ISO13485; aided in FDA audit preparations

Johnson & Johnson – Depuy Synthes, Raynham, MA January-August 2016
Engineering Co-op

- Worked with engineering team in both development and manufacturing of medical implants
- Increased production efficiency through implementation of Lean and Kaizen methodologies
- Familiar with medical device industry regulations; completed PFMEA/risk analysis documentation
- Utilized knowledge of investment casting and related processes in performing statistical analyses of scrap production and root cause analyses of product defects

Relevant Skills

Applications: SolidWorks, Siemens NX, MATLAB, C++, AutoCAD, MS Project, MS Excel
Prototyping: Laser Cutting, 3D-Printing (SLA, Additive), Machine Shop, Lead-Free Soldering