

Michael Blatt

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EDUCATION

Bachelor of Science, Biomedical Engineering (Bioelectrical Engineering Emphasis) **Class of 2017**

University of Utah – Salt Lake City, Utah

Thesis: Assessment of extracellular volume mapping of the left ventricle using Hematocrit estimation methods

GPA: 3.8; Tau Beta Pi Engineering Honors Society member

SPECIALIZED SKILLS

Programs: Product Development, Project Management, Regulatory Affairs (CE/FDA), Design for Manufacturability, CAD, C++, HTML, CSS, Python, JavaScript, JQuery, cell culture, histology, Visual Studio, multidisciplinary team leadership, social media management, marketing, digital video production and editing.

PROFESSIONAL EXPERIENCE

Product Development Engineering Intern, *SimplicityMD* **May 2017 – Present**

- Developed and maintained technical files for a class I and II medical device, following FDA and CE guidelines.
- Maintained class I medical device technical file for conformity with CE's medical device regulations.
- Drafted quality and risk management systems, assisted in design control drafting and verification testing.
- Designed prototypes and designs for injection molding using CAD software.
- Assisted in creation of marketing material and instructions for use.
- Designed and maintained webpages for parent company and product.

Undergraduate Research Associate, *Utah Center for Advanced Imaging Research* **April 2015 – May 2017**

- Conducted independent research surrounding cardiovascular MRI data processing, including image registration, signal processing, and physiological modeling primarily in MATLAB
- Handled package version control and managed large-scale datasets containing gigabytes of MR images.
- Reported findings to principle investigator at weekly group meetings and documented software

Board of Directors Member, *University of Utah Ski & Snowboard Club* **August 2014 – November 2016**

- Managed relations with club members, partner ski resorts, and business sponsors for the largest student-ran organization at the University of Utah
- Promoted club events and assisted in member recruitment
- Assisted in online content creation and management for social media platforms such as Facebook and Instagram

PROJECT EXPERIENCE

Senior Capstone Project **January – December 2016**

- Pediatric Long Bone Loading Device intended to promote bone growth in osteoporotic adolescents
- Conducted device design, prototyping, and verification as outlined by the FDA and CFR title 21
- Primary responsibilities included motor and motor control design and documentation preparation
- Held quarterly design reviews to review design progress

genECVmap.m **June – August 2016**

- Independently-developed MATLAB package designed for the Utah Center for Advanced Imaging Research
- Intended for file management, image processing, and image registration of MRI images using code written independently, in-house, and open source C++ code

CruiserCrutch **November 2014 – April 2015**

- Novel crutch foot design for attaching to a normal crutch shaft to reduce underarm soreness and improve user mobility.
- Primary roles included designated team leader, primary device designer, and group spokesperson
- Awarded the People's choice award (based on popular vote by contest attendees) and finalist for Media Award (determined by panel of local and national tech journalists) at the Bench2Bedside competition