

# Bo Reynolds

Littleton, CO 80127

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## Overview

A Six Sigma Black Belt certified engineer and researcher in the field of medical devices. Technical and detail oriented, global perspective, extremely organized, adaptable innovator, excellent problem solver, and a passion for quality work that makes a positive difference.

- **3D Modeling/Printing**
- **Process Improvements**
- **Cross-functional Teams**
- **Quality Assurance**
- **Design Control**
- **Software Testing**
- **Product Development**
- **Employee Engagement**
- **Pattern Recognition**

## Education

**Yale University**

**Engineering Sciences (Mechanical)**

**New Haven, CT**

## Employment Experiences

### Biomedical Engineer II

3D Systems Healthcare, Littleton, CO

Nov. 2015-Present

Project Manager for TMJ Concepts Product Line

- Managed all products and information relating to these cases moving from one stage to the next, performing a final sign-off inspection on cases and deliverables prior to shipment. Optimized the workflow to reduce average time of case turnover by 75% from 40 to 10 minutes while also utilizing automated programmatic tools to slash common errors by 25%
- Showcase my skill with numerous CAD programs such as Solidworks and Geomagic Freeform while completing CAD conversion and segmentation of patient CT DICOM data to create detailed 3D anatomical models for custom orthognathic, reconstruction, and spine cases

Testing, Validation, and Rollout of Dicom to Print (D2P)

- Supervised the testing, validation, and rollout of the internally developed software Dicom to Print (D2P) in 3 versions for use internally and externally. Utilizing the Machine Learning methodology, average time of case turnover reduced by 80%, from 75 to 15 minutes. D2P has successfully replaced Mimics as the main segmentation software for all of our product lines, saving the company over \$150,000 annually. It is now being used by 50+ employees.
- Primary test and validation engineer of D2P, investigating over 50 versions of it, instrumental in the discovery of key defects to maintain GMP and meeting critical deadlines
- Validated all 3 released versions of D2P through authoring several SIQ, SRS, and SVP quality documents according to GMP while also coauthoring and successfully executing the D2P-Mimics Equivalence Protocol in collaboration with 4 other departments.
- Supervised rollout of D2P internally and created a method to report bugs and errors that captured hundreds of issues; they were then reported to the developers and troubleshooted for workarounds so that workflows could be adapted as adoption rate increased.
- Tested a machine learning methodology in D2P to optimize segmentation efficiency, which was adapted into the workflow along with two other commercially releasable version.

## Other Projects

- Collaboratively tested and validated 4 other software applications, authoring several SIQ, SRS, and SVP quality documents according to GMP
- Lead facility wide effort in the creation of a recognition program and its integration into the company-wide program; recognizing over 50 employees so far
- Collaboratively organized over 20 company engagement events to boost morale and increase retention rates, ranging from attendances of 10 to over 200 people

## **Social Media and Marketing Consultant, Store Assistant Manager, Website Manager**

Threshold Ministries Incorporated, Elizabeth, CO

Jan. 2014-Nov. 2015

- Recognized by Board Chairman for bringing the ministry to the 21<sup>st</sup> century
- Established new headquarters in Colorado, creatively utilizing a versatile space for an office and a store to save over \$10,000/year
- Managed a cross-functional team (Bookkeeper, Accountant, and Volunteers) to devise an innovative method to inventory over 1,000 items, set up a POS, and open for business within one month
- Designed and implemented a three-phase marketing campaign to invigorate the ministry's social media and website presence, resulting in increased visibility and revenue
- Wrote and published an employee policies and procedures manual, becoming the store standard

## **Volunteer Experiences**

### **Tutor**

Whiz Kids, Denver, CO

Sep. 2017-Present

- Mentored an at-risk middle schooler in weekly sessions through the 2017-2018 academic year, improving his grades to Straight As by the end of the year
- Creatively tested their basic competencies and designed lesson plans to fill gaps in their education while keeping them engaged

## **Professional Skills**

- Software: SolidWorks, Labview, Arduino, Freeform, InDesign, Microsoft Project, Mimics, D2P
- Hardware: Arduino, National Instruments, LabJack, 3D printer, Laser Cutter, Laser scanner