**Thomas Chance**

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**Objective**

Seeking engineering position in research, design, and innovation of medical and ergonomic technologies.

**Education**

Bradley University, Peoria, IL, May 2014

*B. S. in Mechanical Engineering with Biomedical and Energy Concentrations*

Tau Beta Pi

NCEES Certified Engineering Intern

**Work Experience**

Zimmer – contract engineer in Packaging Remediation, May 2014 to July 2015, Feb 2017 to Present

• Conduct and lead validation tests (DOE/OQ/PQ) of sterile packaging processes

• Compose detailed reports based on results of validation tests

• Instruct new team members in validation procedure

• Prepare, maintain, and review validation and compliance documentation

• Maintain, allocate, and prepare inventory of validation supplies and equipment

• Coordinate validation testing with affected departments and personnel

Zimmer – contract engineer in CNC Machine Validation, Feb 2016 to Feb 2017

• Coordinated test sample manufacturing with production cell leaders

• Liaised with different levels of validation process to maximize efficiency

• Standardized and prepared documents to ensure quality of validation process

• Maintained and updated archive of equipment validation documents

• Updated obsolete production routers to conform to current applicable process

Peoria Robotics – summer internships in biomedical product R&D, 2012 and 2013

• Designed and manually machined virtual reality glove hardware to improve medical simulation training by adding haptic feedback

• Developed MATLAB software to simulate human patient physiology to improve surgical simulations in coordination with OSF Hospital

• Created MATLAB software for use with motion tracking to reduce repetitive motion injuries on factory floors and improve efficiency during team surgical procedures

**Senior Design Project**

Jump Trading Simulation Center – improve ultrasound simulator mannequin surgical practice value

• Researched self-healing materials, interfaced with supplier, and acquired suitable material to improve durability of mannequin

• Researched and tested ultrasound-compatible materials to determine applicability as distinct tissue types in mannequin to create higher fidelity ultrasound visuals

• Designed hydraulic system to enable user to adapt mannequin to depict multiple patients

• Designed and fabricated final product assimilating all components

**Skills**

Pro/E, Mechanica, AutoCAD, MATLAB, Simulink, EES, Microsoft Office

Swing Dance – Event coordinator, assistant instructor, DJ, 2011 to Present