

# Elizabeth Sloan Reich Cooper

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## EDUCATION

**University of Connecticut**, Storrs, CT

Master of Science, Biomedical Engineering, *Concentration: Clinical Engineering*

**Syracuse University**, Syracuse, NY

Bachelor of Science, Biomedical Engineering, *Minor: Engineering Management*

**Expected May, 2019**

**May, 2017**

## EXPERIENCE

**Clinical Engineer at UMass Memorial Medical Center**

**August 2017 - Present**

- Developed and implemented a rounding process throughout the Medical Center to verify inventory and maintenance of devices
- Team member on large hospital projects including Epic EMR rollout, new construction projects, and Philips PIIC iX upgrades
- Assisted in Go Live of HUGs Infant Security system and continued to engage with ongoing troubleshooting and questions and concerns of clinical staff
- Project manager for capital equipment purchases that included device evaluations, purchasing, integration and deployment of medical devices and systems
- Primary team member for a large scale Ultrasound Replacement Strategy across the healthcare system. Coordinated four vendors for ongoing meetings, vendor evaluation fair, clinical trials, and business proposals. Sat on and presented to the newly formed Ultrasound Steering Committee
- Created an improved auditing process and schedule for our Laser Safety Officer
- Assisted in the preparation, planning, and rollout of a new CMMS
- Evaluated full inventory to create purchase recommendations to be presented to hospital senior leadership
- Worked to create comprehensive plan for the future state of hospital's patient monitoring system including upgrades of current state and options for replacement
- Attended various hospital committees including Laser Safety, Capital, and Project Leadership Team

**Research Intern at Connecticut Hospital Association, Wallingford, CT**

**May 2015 - August 2016**

- Reviewed adverse event reports from 20 + hospitals for completion
- Entered adverse event demographic and narrative data into proprietary software program and Excel
- Utilized Google Scholar and other academic sites to research articles on Hospital Culture and Reliability

**Intern at St. Barnabus Hospital, Bronx, NY**

**May 2016 – June 2016**

- Shadowed ER physicians and assisted with retrieval of equipment needed at patients' bedsides
- Unpacked equipment, tested equipment, and identified problems for biomedical engineers and received education on the role of biomedical engineering in hospital environments
- Participated in safety rounds on floors to check equipment and identify repairs needed

**Research Assistant at Yale University School of Medicine, New Haven, CT**

**May 2014 – July 2014**

- Prepared fruit flies with fixative and imaged their cardiac structures to determine impact of antibodies on cardioliipin and development of cardiac congenital defects
- Utilized MatLab to capture heartbeat images and reported on heart beat findings and impact of diet and environment

## ACTIVITIES

**DeVito's Tae Kwon Do, Bedford Hills, NY: Black Belt & Instructor**

**September 2011 – May 2013**

- Taught and planned classes for participants, ages 4 to adult, White Belt through Black Belt

**Alpha Omega Epsilon: New Membership Educator & E-board Member, Secretary**

**September 2013-May 2017**

- Educated and lead 10-15 women through 7 week joining process including quizzes, risk management project, and education on sorority values, mission, and vision
- Participated in E-board meetings to discuss budgeting, event planning, and troubleshoot issues

## TECHNICAL SKILLS

Microsoft Office, MATLAB, Comsol, AutoDesk Inventor, CompTIA Basic Network+, CMMS Management

## AFFILIATIONS AND CERTIFICATIONS

American College of Clinical Engineering (ACCE)

Lean Six Sigma Yellow Belt

AAMI

Laser Safety Awareness Certification

New England Society of Clinical Engineering (NESCE)