Kathleen Grunder

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EDUCATION

University of Connecticut, Storrs, CT
Masters of Science, May 2012
Focus: Clinical Engineering

Vanderbilt University, Nashville, TN
Bachelor of Engineering, May 2010
Major: Biomedical Engineering

EXPERIENCE

Providence VA Medical Center August, 2010 – present
Clinical Engineer

- Intern in the Clinical Engineering Department for twenty to thirty hours per week
- Perform minor Preventive Maintenance and Device Repair with Biomedical Engineering Technicians
- Develop benchmarking and medical device inventory reports
- Managed the Department's 5 S organization initiative
- Developed equipment lists and room requirements for an ED/ICU/ Hemodialysis addition and a Specialty Clinics addition to the Medical Center
- Work on various projects throughout the hospital, including VA-MDNS, eBERS and PM reduction
- Create reports and presentations for hospital leadership
- Coordinate and assist with medical device evaluations
- Co-wrote the department's orientation booklets and present at the monthly new employee orientation
- Participate in several committees including Environment of Care, Commodities and Standards, Equipment Committee, and Information Protection Council

Veterans Affairs' National Center For Patient Safety (NCPS) May, 2009 – August, 2009
Biomedical Engineering Intern

- Worked with the three Biomedical Engineers at NCPS on their patient safety investigations and reports
- Researched information for and drafted a hazard summary about air mattresses to be issued to all VA hospitals
- Contacted hospital Patient Safety Managers and medical companies to discuss patient safety concerns
- Participated in meetings with medical device manufacturers and other VA staff
- Worked with human factors engineering and analyzing devices for patient safety

Vanderbilt Institute for Bio-systems Research and Education August, 2007 – May, 2009
Undergraduate Researcher

- Worked in Dr. John Wikswo's lab on a project to develop an oxygen sensitive film for use in microfluidic research
- Created an oxygen-film production protocol and a protocol to image the films using fluorescent microscopy
- Presented at the Biomedical Engineering Society Conference and at Tennessee Academy of Science
- Lead, presented, and participated in weekly Journal Clubs which discussed recently published research in the field of microfluidics

Professional Affiliations

- New England Society of Clinical Engineering (NESCE), student member
- Association for the Advancement of Medical Instrumentation (AAMI), student member
- American College of Clinical Engineering (ACCE), student member

Relevant Graduate Coursework

- Introduction to Clinical Engineering
- Engineering Problems in the Hospital
- Clinical Instrumentation Systems
- Human Error and Medical Device Accidents
- Medical Instrumentation
- Public Health and Policy in an Aging Society

Academic Project Experience

Design of Biomedical Engineering Devices and Systems, Spring 2010

- Designed, tested, and presented a CPAP remote alarm system to awaken parents in another room when their child's CPAP mask is displaced or removed or the machine's air flow fails

Biomedical Engineering Lab, Fall 2010

- Performed and presented a project to measure the stress properties of bone using MATLAB simulations