

ELIZABETH J. KLODD

345 East Superior Street, Room 1441 • Chicago, IL 60611 • (312) 238-6533 • Fax: (312) 238-6510
e-klodd@northwestern.edu

EDUCATION

Northwestern University, Evanston, IL

Master of Science Expected December 2008

Biomedical Engineering

Thesis: *Effects of Prosthetic Foot Roll-Over Shape Radius on Gait*

Syracuse University, Syracuse, NY

Bachelor of Science, *cum laude* May 2006

Biomedical Engineering with Honors

Senior Thesis: *Predictive Measures of Tooth/Tooth Contact in Mastication*

AWARDS AND SCHOLARSHIPS

Northwestern University Teaching Assistantship 2006-2007

Bernard Award for Outstanding Student May 2006

Syracuse University Honors Program 2003-2006

Syracuse University Dean's Scholarship 2002-2006

RELATED EXPERIENCE

Northwestern University Prosthetics Research Laboratory & Rehabilitation Engineering

Research Program, Rehabilitation Institute of Chicago, Chicago, IL 2007-Present

Research Assistant

- Investigated properties of prosthetic feet using MATLAB modeling
- Initiated and completed Institutional Review Board protocol and consent revisions
- Fabricated rocker-based prosthetic feet using various machine shop tools
- Performed gait analysis and measured energy expenditure of prosthesis users

Department of Biomedical Engineering, Northwestern University, Evanston, IL

Teaching Assistant 2006-2007

- Instructed cardiac and respiratory physiology, endocrine and metabolic physiology
- Engaged students in weekly discussion sections for one hour
- Assisted in grading all homework and exams for 120 students
- Mentored one student on post-graduation plans

Biomaterials, Syracuse University, Syracuse, NY

Research Assistant Summer 2005

- Investigated mechanical wear of ultra high molecular weight polyethylene (UHMWPE)
- Utilized LVDT-based microindentation system to determine behavior on microscale
- Operated atomic force microscope to indent and image polyethylene samples on nanoscale
- Analyzed data to determine force/deflection curve, hardness, and modulus of material

Pediatric Pulmonology, Rush University Medical Center, Chicago, IL

Research Assistant

Summer 2004

- Assisted principal investigator with study of pediatric asthma
- Operated impulse oscillometry system (IOS) for asthma detection in children as young as three
- Organized and interpreted data obtained from testing
- Recruited five subjects for the study

CONFERENCES ATTENDED

Society of Women Engineers National Conference. November 3-5, 2005. Anaheim, CA.

PROFESSIONAL SOCIETY MEMBERSHIPS

Society of Women Engineers

2002-Present

- President
- Public Relations Officer

2005-2006

2004-2004

Biomedical Engineering Society

2008

COMPUTER SKILLS

Microsoft Office, MATLAB, HTML, LabView, Maple, EvaRT, OrthoTrak

OTHER DATA

Hansen, A., Steer, S., Tucker, K., Klodd, E. Making a Cement Upper Molding Surface for Compression Molding of Shape&Roll Prosthetic Foot Cores. 25 Feb 2008.

<http://www.medschool.northwestern.edu/depts/repoc/sections/research/projects/lowerlimb/pdfs/cement_uppermold.pdf>

Museum of Science and Industry Volunteer, Chicago, IL

2007-Present

Engineering Student Recruitment, Evanston, IL, Syracuse, NY

2004-Present

Student Tutor, Syracuse, NY

2004-2006

Summer Reading Program Coordinator, Lincolnwood, IL

2002-2005