

Patrick Thompson
202 Carlyn Court
Downtown, PA 19335
610-883-2646
prt29@drexel.edu

Education

Drexel University
Bachelor and Masters of Science in Biomedical Engineering
Biomaterials and Tissue Engineering

Philadelphia, PA
June, 2012
Cumulative GPA: 3.33

Research Experience

Drexel University Department of Biomedical Engineering
Research Assistant

Philadelphia, PA
May to December, 2009

- Designed and constructed Piezoelectric Finger (PEF)
- Designed protocol for making PEF
- Assisted with prototype design for breast cancer detection
- Assisted with software development for prototype
- Provided bi-monthly presentations of progress
- Completed other duties as assigned

Laboratory Experience

- Experience working in soft tissue with human cadavers, cell cultures (mouse)
- Experience in joint preparations (spine, hip, knee, ankle)
- Worked with EKGs, EMGs, and EOGs, PCR reaction, Gel electrophoresis
- Used Various lab equipment (Oscilloscopes, Laser device, Diamond bladed cutting saw, Pipetting and Micro-pipetting, and Optical Microscope)

Other Experience

Drexel University Department of Biomedical Engineering
Receptionist

Philadelphia, PA
January to March, 2008

- Answered questions and directed people to appropriate offices
- Sorted and filed confidential academic information

Skills

- Software: AutoCad, Maple, MatLAB, LabVIEW, Microsoft Office (Excel, Word, PowerPoint)
- Operating Systems: Windows (95, 98, XP), Mac (OS X)

Engineering Design Project

- Designed and Implemented Self Extinguishing Kitchen Appliance (S.E.K.A.)
- Researched specialized wet chemical based extinguishing unit, safety hazards towards the public, and integrated connections from device to range
- Effectively researched, with group members, integral parts of extinguishing appliance
- Created 50 page research paper on design
- Presented engineering design to fellow students and faculty

Honors and Awards

- Cooperative Education Certificate of Merit Spring 2008
- Deans Scholarship, Drexel University Fall 2007
- Pennoni Honors College Fall 2007
- Who's Who of America scholarship Fall 2007
- Coatesville Area High School Art's Award -Outstanding Dedication and Interest Summer 2007

Relevant Coursework

Transport Phenomena of Living Systems
Cells and Genetics
Mechanics of Materials

Biosimulation
Human Physiology (I, II)
Biomechanics

Principles to Biomedical Engineering
Anatomy for Biomedical Engineering
The Body Synthetic