

MASTER ENGINEER

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Lancaster, PA 17603

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Education: **Master of Science in Engineering Science,**
Concentration: Mechanics & Design
Pennsylvania State University, Middletown, PA
Anticipated Graduation: June 2007

Bachelor of Science in Biomedical Engineering, September 2004
Drexel University, Philadelphia, PA

EIT/FE Certification, 2006

Relevant Coursework:

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| - Biomedical Engineering | - Computer aided Design | - Electronic Circuits |
| - Finite Element Analysis | - Manufacturing | - Human Physiology |
| - Basic Fluid Mechanics | - Computer Aided Tissue | - Materials |
| - Biomechanics Engineering | - AutoCAD | - Mechanics of Human Joints |
| - Biosensors | - Mechanics of Materials | - Statics & Dynamics |

Senior Design Project: PC-Crash & HVE (Crash Reconstruction)

Computer Skills: Mimics (Medical Imaging Software), Pro-E Wildfire (3D-CAD), AutoCAD, Microsoft Office, Maple

Work Experience: Robson Forensic Inc, Lancaster, PA

Biomechanical/Reconstruction Engineering Associate, Aug. 2004 – Current

- Associate of the biomechanical practice & crash team for a forensic investigation firm
- Serve as a point person using a crash analysis software (PC-crash) providing collision and trajectory simulations for a variety of motor vehicle collisions
- Drafted scaled diagrams in AutoCAD for products and accident scenes.
- Conduct site inspections, case research, analyze medical histories and x-ray/MRI films to perform an injury causation analysis for a variety of litigation cases
- Developed test protocol for an orthopedic adjustment device
- Participate in writing and reviewing technical reports that communicate expert opinions used in litigation cases
- Involved in various marketing efforts such as attending exhibits and writing marketing materials.

TraumaLink at The Children's Hospital of Philadelphia, Philadelphia, PA

Engineering Research Assistant, February 2003 – August 2004

- Served as a research assistant at the number one children's hospital in the United States for State Farm Insurance's national study on motor vehicle injuries in children.
- Conducted accident reconstruction and engineering biomechanics research using reconstruction software
- Learned a multi-disciplinary approach to clinical research by interfacing with physicians, statisticians, epidemiologists, public health professionals, and engineers.
- Substantial effort placed in enrolling child subjects involved in automobile crashes and maintaining appropriate enrollment databases for accident reconstruction
- Responsible for conducting a single analysis from start to finish with the goal being publication of the study in a peer-reviewed journal
- Child injury biomechanics in SUV crashes with airbag deployment-a case study

Princeton Radiology Pharmaceutical Research (RadPharm), Princeton, NJ

Software Engineer Associate, March 2002 – June 2002

Biomedical Engineering Intern, IT Department, October 2001 – March 2002

- Assist in maintaining and supporting FDA compliant computer systems used for radiology review of subjects as a surrogate endpoint of phase III clinical trials.
- Emphasis on developing and documenting standard operating procedures, developing and executing user-acceptance validation tests, user-support of digital image systems.

References Available On Request