Daniel Lesko

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Focused on putting my developing skills and experience into action to make a strong, positive, professional impression.

EDUCATION:

· University of Maine, Orono, ME, Graduation: **May 2019**
- Bachelor of Science in Biomedical Engineering **GPA: 3.95**
- Men's D1 Varsity Cross Country and Track & Field travel team

· Mt. Blue High School, Farmington, ME, Graduation: June 2015

WORK EXPERIENCE:

IDEXX (Co-Op)
Jan 2018 – May 2018

IDEXX Laboratories, Westbrook, ME: Research and Development

· Investigated problems associated with veterinary diagnostic devices by designing and carrying out logical, repeatable, and traceable experiments.
· Prepared reagents according to company established protocol.
· Documented all experiments and reagents for USDA traceability.

Primary Focus:

To work effectively in a highly team based environment to troubleshoot and solve problems associated with diagnostic device products considering the perspective of the customer, USDA approval, robustness of product, etc.

RESEARCH EXPERIENCE:

VEMI Lab
2018-Present

The University of Maine, Orono, ME: Virtual Environment and Multimodal Interactions Lab

· Working to develop an augmented reality iOS application for nursing education.
· Built a thin, flexible force sensitive array for applications in medical education.
· Collaborated on a project to explore vibrotactile navigation using virtual reality.

Primary Focus:

To contribute my expertise to a multidisciplinary culture in which collaboration is demanded to develop novel and innovative research focused on human-computer interaction.

Mason Lab
2017-Present

The University of Maine, Orono, ME: Prof. Michael Mason's Lab

· Currently investigating methods of tracking cell incorporation and viability in 3D cellulose nanofibril (CNF) products using two photon and fluorescent microscopy.
· Produced CNF composites with inorganic and organic oxides.
· Carried out experiments to investigate acid leaching and material strength.

Primary Focus:

To investigate the feasibility of using CNF as a material for surgical implants considering and optimizing biocompatibility, tensile and compressive strength, and porosity for cell incorporation.

Molloy Lab
2016-2017

The University of Maine, Orono, ME: Prof. Sally Molloy's Lab

· Frequently conducted experiments involving phage titers, host range testing, immunity assays, DNA extractions, efficiency of lysogeny, etc.

Primary Focus:

To establish patterns of mycobacteriophage infection across a panel of mycobacterium species considering genomic relationships between phage.

SOFTWARE EXPERIENCE:

In approximate order of proficiency:

Excel and Office, LabVIEW, Arduino, Mathcad, JMP, RStudio, Unity, Blender, Matlab, C#, XCode and Swift, SolidWorks, DNA Master and Phamerator.