**Student A. Name**

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**Objective:** To obtain a laboratory position in the research field focusing in biology.

**Education:** Delaware Valley College, Doylestown PA

Bachelor of Science Degree May 2009

Major: Biology; GPA 3.34

Specialization: Pre-Professional Studies

Achieved Dean’s List - Fall 2006-Spring 2007; Fall 2008

**Special Project:** “Independent Project – Heat Shock Importance” 03/2008

* Transformed MM294 E. coli with plasmid DNA
* Used various different time periods of heat exposure to demonstrate the importance of heat shock in rapid colony transformation

**Industry Experience:** Cornell University, Ithaca NY 12/2008-1/2009

Laboratory Technician, Department of Biomedical Engineering

* Collaborated with Dr. Cynthia Reinhart-King to research effects of shear stress on endothelial cells in the cardiovascular system
* Passaged Bovine Aortic Endothelial Cells to use with RAININ Dynamax Model RP-1 Peristaltic Pump
* Fixed cells with formaldehyde solution in order to stain and photograph results
* Obtained experience necessary for analyzing and solving a research problem

Lewis Veterinary Clinic, Linden PA 06/2007-08/2007

Volunteer Veterinary Technician

* Restrained animals for the veterinarian to administer x-rays and injections
* Observed the veterinarian’s appointments and minor surgeries (declawing, hematoma removal, cesarean section) to learn the basic procedures
* Performed Complete Blood Count (CBC) and Chemistry blood work
* Learned the correct procedure for taking blood samples and administering injections and fluids to animals
* Performed all cleaning duties to maintain a sterile environment

**Lab Skills:**

* Use of aseptic technique
* Bacterial colony growth
* Bacterial staining
* Bacterial sample identification
* Serial dilutions
* Total Coliform bacterial testing
* Use of Infrared (IR) Spectrophotometer
* Use of Nuclear Magnetic Resonance (NMR) machine
* DNA restriction and gel electrophoresis
* Restriction mapping
* Polymerase Chain Reaction (PCR) and transformation of E. coli using PCR
* Plaque assays/titer determination of bacteriophages
* Transduction via bacteriophages
* Isolation of virus from various samples
* Enzyme-Linked Immunosorbent Assay (ELISA)
* Western Blotting
* Cell culture/cell passaging
* Microsoft Office 2003/2007
* CambridgeSoft ChemDraw software