Grant Pemberton

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Objective: To use my interdisciplinary education to develop ideas that significantly benefit **others**

EDUCATION

Tufts University   **Medford, MA**
Bachelor of Science in Biomedical Engineering   *May 2017*
Minor in Computer Science
- **GPA**: 3.5, Dean's List 8/8 Semesters
- **Relevant Coursework** – Data Structures, Algorithms, Web Development, Robotics and Mechatronics, Design of Medical Instruments, Molecular Biotechnology, Industrial/Organizational Psychology

WORK EXPERIENCE

Systems Engineering Research Fellow: SilkLab *(September 2016 - Present)*   **Medford, MA**
Responsible for designing, constructing, and programming an automated silk processing system for use in laboratory settings to create high molecular weight silk fibroin solutions

Bioengineering Research Fellow: Tufts Biomimetic Device Lab *(May 2015 – September 2016)*   **Medford, MA**
Designed, built, and programmed animal monitoring equipment for insect behavioral research, and developed tools for performing high throughput analysis of cultured insect myoblasts *in vitro*

Biomedical Engineering Research Fellow: Black Lab *(January 2015 – May 2015)*   **Medford, MA**
Designed and built a PID controlled transparent microscope stage incubator used to study the formation of calcific nodules on cardiomyocytes *in vitro* through time-lapse imaging

Biomedical Engineering Research Fellow: Kaplan Lab *(September 2014 – December 2014)*   **Medford, MA**
Developed an experimental protocol to research the correlation between Type II Diabetes and Obesity by modeling of the effects of glucose concentrations on metabolic activity of *in vitro* adipose tissue

Assistant to Director of Potomac School Discovery Camp *(June 2014 – August 2014)*   **McLean, VA**
Fostered an inclusive and welcoming environment for campers age 8-13, organized over 250 daily individual camper schedules using Microsoft Office, and led several STEM enrichment activities

SKILLS & ACTIVITIES

Coding Skills: C++, Python, Bash, UNIX, LabVIEW, Arduino, HTML, JS, Google Maps API, Facebook API
Computer Skills: Microsoft Office, SolidWorks, LaTeX, Git, CAD (SolidWorks, Fusion360)
Lab Skills: Tissue Culture, 3D Printing, Laser Cutting, Molding/Casting, CNC, Machine Shop
Languages: English (native language), Spanish (academic proficiency)

AWARDS & ACHIEVEMENTS

SRA International: Jefferey B. Westerhoff Scholarship Recipient *(June 2013)*
Northwest Federal Credit Union: Ben DeFelice Scholarship Recipient *(June 2013)*
Boy Scouts of America: Eagle Scout Rank *(October 2012)*