**Jorge Alberto Reyes**

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**EDUCATION**

Wentworth Institute of Technology (WIT), Boston, MA **Exp. Apr 2016**

**Bachelor of Science in Biomedical Engineering**  **GPA: 3.2/4.0**

Relevant Coursework: Biomechanics, Engineering Mechanics, Anatomy & Physiology I & II, Medical Device & Systems

**TECHNICAL SKILLS**

**Biological Laboratory Experience**: Tissue Cultures, shRNA transfection, Preparation of Solutions, Immunofluorescence, Protein electrophoresis, Western Blotting, NMR Spectroscopy, PCR, Subcloning

**Computer Programs:** SolidWorks, AutoCAD, LabVIEW, MatLab, Microsoft Office, C++, R Programming, Chenomx

**Electrical Laboratory Experience:** Digital Multimeter (DMM), Oscilloscope, TI Microcontrollers, Analog and Digital Circuit Design, Breadboard/Data acquisition board, Function generator, Power supply, and Strain gauge

**Medical Device Experience:** Vernier sensors, including EMG, EKG/ECG, pulse oximeter and blood pressure cuff

**Language:** Fluent in English and Spanish

**RELATED EXPERIENCE**

**Cerebral Palsy Walking Aid**, WIT, Boston, MA **Jan 2015 – Aug 2015**

Senior Design I & II

* Developed a new gait trainer for children with cerebral palsy
* Utilized SolidWorks and Working Model to design a 3-D model
* Wrote the technical approach in the design report, which includes the requirements for the design, cost,  
  concepts, customer needs, and weight, using input from physical trainer at Boston Children’s Hospital

**Cancer Research Assistant Intern**, TUFTS UNIVERSITY, Dental and Medical School, Boston, MA **Jun 2014 – Present**

* Observed & maintained two different types of cancer cells that were used at the lab
* Preformed lentivirus-medicated shRNA transfection for the characterization of proteins involved in endocytosis
* Analyzed metabolic profile of two cancer cell types by using Nuclear Magnetic Resonance Spectroscopy for two cancer varieties

**Peritoneal Dialysis Catheter Port**, WIT, Accelerate, Boston, MA **Apr 2014 – Present**

Anatomy & Physiology II

* Designing a peritoneal dialysis catheter port as part of an ongoing interdisciplinary team project
* Successfully pitched the project through Accelerate, an innovation and entrepreneurship program for  
  funding to start prototyping, testing, and researching

**ACADEMIC PROJECTS**

**Colorimeter** **Sep 2014 – Dec 2014**

Microcontrollers & Embedded Systems

* Designed colorimeter structure through SolidWorks and Soldered mini printed circuit board  
  with a variety of components
* Collaborated with a large group to assemble colorimeter components

**Additive Manufacturing Applied to Anatomy** **Nov 2013 - Dec 2013**

Anatomy & Physiology I

* Designed the masseter muscle on Solid Works, printed out a 3D model, and wrote technical report

**Mass Conversion** **Mar 2012 - Apr 2012**

Intro to Engineering and Design

* Built load cell with strain gauge and used as a mass to convert prices for supermarkets, then created a LabView   
  program that calculated measurements as outcome

**LEADERSHIP**

**Treasurer**, Society of Hispanic Professional Engineer **Sept 2013 – Aug 2015**

* Allocated funds based on yearly events, while monitoring and updating budget plan
* Took lead in meeting, events, and provide support to other e-board members

**Orientation Leader**, Wentworth Institute of Technology **Aug 2012 & Aug 2013**

* Provided guidance to freshmen during orientation, facilitate small group conversations related to Wentworth policies

**Wentworth Leadership Program** **Jan 2012 - Aug 2013**

* Established awareness of important leadership skills for my engineering career including group dynamics,  
  ethical decision making, and professional communication

**PUBLICATIONS**

1. Bingham, E., Kamlarz, S., Saffari, S., Tay, R., Reyes, J., Baleja, J., and **Alt-Holland, A.** Dab2-E-cadherin Duo: A New Role in Squamous Cell Carcinoma Development. American Association for Dental Research conference, Boston, MA, March 2015.  
**2.** Saffari, S., Kamlarz, S., Bingham, E., Tay, R., Reyes, J., Baleja, J., and **Alt-Holland, A.** Dab2-Dependent Modulation of the Tumor Microenvironment can Promote Cancer Development. American Association for Dental Research conference, Boston, MA, March 2015.