

# 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
- Performed lentivirus-mediated 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 2012**

**Mar 2012 - Apr**

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.