

# Cory Ortiz

585 E 700 N Apt#1 ♦ Logan, UT 84321 ♦ (801) 879-0789 ♦ [cory.ortiz@iechs.org](mailto:cory.ortiz@iechs.org)

## Skills Summary

- ❖ Research Background
  - Biotechnology, Soils, Education
- ❖ CAD proficiency, 2D, 3D design
  - AutoDesk, Revit, Solid Edge
- ❖ Robotics and Automation
  - VEX, CNC, LabView
- ❖ Metal Fabrication experience
  - Manual Lathes, Mills, Precision work
- ❖ Photo and Video Editing
  - Adobe Illustrator, Premiere Pro, Movie Maker
- ❖ Advanced Composites
  - Carbon Fiber, Fiberglass, Kevlar

## Education and Other related Experience

- ❖ Utah State University – Logan, UT - May of 2015
  - Bachelors of Science Degree – Technology and Engineering Education
  - GPA: 3.7/4.0 Graduating on the Dean's List
- ❖ Student Teaching
  - Mount Logan Middle School – AmeriCorps Scholar
    - Taught 7<sup>th</sup> grade CTE Tech Intro, 8<sup>th</sup> grade Exploring Tech
    - Cooperating Teacher: Dave Anderson (for reference, see reference sheet)
    - Developed curriculum for new VEX Honors course being offered Fall of 2015
  - AmeriCorps Service Project
    - Worked with Student Council to organize St. Baldricks head shaving event
- ❖ Metals Lab Teaching Assistant – Fall of 2014
  - Prepared metal for introductory welding course
    - Duties consisted of laboratory maintenance, as well as plasma cutting, welding, cutting needed materials
- ❖ Professional Organizations
  - Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
    - University Chapter member
    - Undergraduate research presenter at 2014 national conference
      - Abstract Title: Developing a Survey Instrument to Measure Problem Perception, Task Interpretation, and Planning Strategies within Self – Regulated Learning
        - SACNAS 2014 Outstanding Research Presentation Award Winner
  - International Technology and Engineering Educators Association (ITEEA)
    - Competed in VEX Collegiate competition at national conference
      - Awards received: Excellence Award, Tournament Champions, Programming Skills, and Robot Skills

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## Education and Other related Experience (Continued)

- Competed in Technology Challenge (Quiz Bowl style event)
  - Awards received: 3<sup>rd</sup> place
- ❖ Soils Lab Assistant - Fall of 2012 – Fall of 2013
  - Conducted microbiology research dealing with biodiversity specifically urease genes in soils
    - Duties consisted of laboratory maintenance, irrigation of research plot, as well as sampling
- ❖ Salt lake Community College – Salt Lake City, UT - May of 2012
  - Associate's Degree in General Education
  - GPA: 3.6/4.0 Graduated on the Dean's List
- ❖ Itineris Early College High school – West Jordan, UT - May of 2012
  - High School Diploma
  - GPA: 3.6/4.0 Graduated on the Honor Roll

## Service and Volunteer Work

- ❖ Technology Engineering Education Club President academic year 2013 – 2014
  - Organized socials, worked closely with faculty advisor, Marketing for fundraising
  - Worked with officers to revitalize the club
  - Coordinated community Science Technology Engineering Arts Mathematics (STeAM ) outreach
- ❖ College of Agriculture and Applied Sciences Ambassador – Fall of 2014
  - Recruited students at state high schools for majors within the College of Agriculture
  - Represented the College of Agriculture at University events
- ❖ St. Baldricks Foundation 2008 – 2015
  - Would shave head annually in exchange for donations for pediatric oncology research.
    - Organized events 2012, 2014, and 2015
      - 2012 - \$4,650 raised at Salt Lake Community College, SLC UT
      - 2014 - \$1,838 raised at Smithfield Recreation Center, Smithfield UT
- ❖ English Learning Center of Cache valley – Spring 2014
  - Helped instructor manage class, Help students from falling behind
    - Volunteered once a week
- ❖ Science technology engineering arts mathematics (STeAM) outreach
  - Staffed STeAM workshops at local elementary schools
  - Taught elementary students VEX IQ once a week, 2013 – 2014

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## • Service and Volunteer Work (Continued)

- VEX Robotics Competitions
  - Volunteered for VEX IQ as well as VEX EDR Competitions locally
    - Volunteered as score keeper, referee, also assisted in setup and take down
  - VEX EDR Competitions
    - VEX EDR State Championship held at Utah State University 2/2/2013
    - VEX EDR Regional competition held at Davis High School 2/21/2013
    - VEX EDR State Championship held at Utah State University 2/8/2014
    - VEX EDR State Championship held at Utah State University 2/21/2015
  - VEX IQ Competitions
    - VEX IQ regional competition held at Wilson Elementary school 12/6/2014
    - VEX IQ State Championship held at Edith Bowen Laborator school 2/28/2015
- ❖ Sandy City Youth Court panelist – Spring 2012
  - Panelists ran a state recognized court for juveniles
    - Panelist Roles: Juvenile mentor, court clerk, Court Chair

## Research Experience

- ❖ Microbiology
  - Research with enzyme (thioredoxin reductase) assays Summer 2011 at Salt Lake Community College
  - Worked as a Plant Soils research assistant at Utah State University Fall 2012 – Fall 2013
    - Microbiology work dealing with biodiversity specifically urease genes in soils
    - Summer Undergraduate Research and Creative Opportunities (SURCO)
      - Project title: Survey of Genes Encoding Nitrogen Mineralization Enzymes in Agricultural Soils
      - grant awarded – Summer 2013
- ❖ Education
  - Participated in Summer NSF funded Research Experience for Undergraduates (REU) Site Program at Utah State University – Summer 2014
  - Worked with University Faculty during 10 week REU program to shape and conduct research
    - Developed a survey instrument measuring three constructs of Self-Regulated Learning in engineering education
      - Constructs measured - problem interest, task interpretation, and planning strategies