# education

**Cornell University** Ithaca, NY

* Undergraduate in College of Engineering

**Liberal Arts & Science Academy** Austin, TX **GPA 4.32 SAT: 1560 (Super score)**

* National Hispanic Scholar
* National AP Scholar
* AP Scholar with distinction
* National Merit Commended Scholar

**Educational Goal: Master’s in engineering**

# work Experience

**Applied Research Labs, UT Austin**  
40 hrs/wk June-August 2019 | Apprentice

* Designed and built a prototype low-cost low-frequency underwater acoustic source

**Torzal Guitars**   
12 hrs Contracted Project 2018

* Researched, designed, and constructed a small-scale Enterprise Resource Planning database

**Collings Guitars**   
24 hrs/wk June-August 2017 | Luthier I

* Prepared incoming wood shipments for kiln & acclimation; Sanded electric guitar bodies

# Technical Skills

**Programming**

* + Python
  + J ava
  + SQL
  + LaTeX

**Software**

* 3D CAD/Modelling
  + SolidWorks
  + Sketch-up
  + Rhinoceros 3D
* Microsoft Office Suite

**Shop Skills**

* 10+ years of fabrication shop experience in wood and metal.
* Projects Include:Knife making, Machining light saber, Architectural models, Electric and acoustic guitars**,** Jewelry and Box making

# Hobbies

**Music**

* 7+ years playing music: Cello, Ukulele, Guitar, Bass Guitar, Mandolin
* Orchestra | Varsity cellist; TMEA Region 18 placement; UIL Solo and Ensemble | 9th-12th grade

# activities and leadership

**Robotics Team | 11th & 12th grade 12hrs/wk 18wks**

* Design and Build Team | Attended El Paso: Regional March 2018; Houston: Worlds April 2018
  + Worked on designing subsystems, and assembling the final robot

**Orchestra Officer | 8 hrs/wk 40 wks/yr**

* President | 12th grade
  + Helped organize all events
  + Helped make decisions regarding the program as a whole
  + Face of the orchestra
  + Delegate work among officers
  + Emcee at concerts and banquets
* President/Vice President | 11th grade
  + Helped organize all events
  + Helped make decisions regarding the program as a whole
  + Face of the orchestra
* Head Librarian | 10th grade
  + Selected music for four orchestras
  + Made copies of the music

**LASA High School Ambassador | 12th grade**

* Helping incoming students get acquainted with a magnet school environment
* Advocating for the school at other middle schools at recruitment events
* Teaching incoming freshmen valuable study skills to help them succeed

**National Music Honor Society | 12th grade**

* Founding member
* Participating in planning and future development

**National Honor Society | 11th-12th grade |40 hrs/yr**

* Volunteered in the LASA High School community and the greater Austin community
  + Ran a booth for city wide scavenger hunt benefitting Alzheimer’s research
  + Helped setup First Lego League tournament hosted at LASA
  + Community outreach through robotics
    - nVidia Corp.
    - Afterschool program Ditmar community center

**ACE Mentorship Program | 11th grade 2 hrs/wk 18wks**

* Lectures & projects covering Architecture, Construction and Engineering
* Group designed an earthquake resilient, eco-friendly mid-rise building for Rome

**Bach & Roll chamber group |9th, 10th & 11th grade 1hr/wk school year**

* Helped select and arrange contemporary songs for a string group
* Helped organize meetings/rehearsals 11th

**Musicals | 10th, 11th, 12th grade**

* Cellist for AISD Summer musical, *Peter Pan* | Summer 2017
* Cellist for school musical
  + *9 to 5* | 11th
  + *Sweeney Todd* | 12th