

# Gabriel M. Mukobi

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## Education:

**Stanford University** - Class of 2022 (Current Freshman)

Studying CS+Music, a joint major between computer science and music at Stanford University.

**Camas High School** - 2014-2018

Cumulative Unweighted GPA: 4.0

**Camas High School Math, Science, and Technology Magnet Program** - 2014-2018

## Research

**Implementing a High Precision Ultra-Wideband Positioning System for Kinematic Education** - 2017-2018

**Measuring the Effect of Symbiotic Relationships Between Various Arbuscular Mycorrhizal Fungi and *Lactuca sativa* on Carbon Dioxide Uptake and Sequestration** - 2015-2016

**Implementing Heat Conductive Ruffles to Lessen Small Scale Thermal Pollution in Developing Nations** - 2015-2016

**The Measured Efficacy of Water Purification by a Graphene Sand Composite Filter** - 2014-2015

## Volunteer Experience:

**Portland State University, Ralf Widenhorn Lab** - June 2017-August 2018

Volunteered as an intern at the physics lab of Ralf Widenhorn at Portland State University, contributing over 500 hours developing a new high accuracy localized positioning and motion capturing device and implementing it as a learning tool for hands-on college-level physics courses, as an advanced position and motion data collection device for professional athletes, and as a solution for other high precision applications.

**Kasese Wildlife Conservation Awareness Organization (KWCAO)** - September 2016 through Present

Volunteered an average of 4 hours per month analyzing, updating, and drafting alternative designs and layouts to the Kasese Wildlife Conservation Awareness Organization (KWCAO) website, [www.kasesewildlife.org](http://www.kasesewildlife.org)

**Camas High School Basketball Camp** - Summer 2014, Summer 2015, Summer 2016

Volunteered at this basketball camp over the summer teaching children the basics of basketball and helping them have fun. Worked for Camas High School Basketball under Skyler Gillispie and Ryan Josephson.

## Activities:

**Music** - [music.gabrielmukobi.com](http://music.gabrielmukobi.com)

Released *Anywhere But Here* album June 2018. Written, recorded, mixed, and more all done solo. Available at above link.

Has played the french horn since 2012 and in the Camas High School Marching Band, Symphonic Band, Brass Choir, and Wind Ensemble 2014-2018. Has played guitar since 2009 and in Simply 8 2016-2018 and the Camas High School Jazz One (highest) band 2016-2018. Also plays and records trumpet, keyboards, and electric bass.

Music Lessons - Has taught lessons for guitar, piano, ukulele, and music theory to a diverse range of students since 2016.

## **Clubs**

Band - Played in various Camas High School bands 2014-2018; elected Band President for the 2017-2018 school year.

National Honor Society - Was an active member of the Camas NHS 2016-2018; elected NHS historian 2017-2018.

## Selected Awards:

National Merit Scholarship Program Finalist and \$2500 scholarship winner - Awarded 2018

Camas High School Pride Inside Award - Awarded 2017; Nominated 2017, 2016, 2015

Camas High School Academic Excellence Award - English 2017, Language 2017, Biology 2016, Math 2015

MST Magnet Best of Senior Class Award - Camas High School MST Magnet Spring Research Symposium 2018

1st Place, Embedded Systems - Washington State Science and Engineering Fair 2018

Intel Excellence in Computer Science Award - SW Washington Science and Engineering Fair 2018

The AIAA Excellence in Aeronautics Award - Washington State Science and Engineering Fair 2018

Mu Alpha Theta National Mathematics Honor Society Award - SW Washington Science and Engineering Fair 2018

NASA Earth System Science Award - SW Washington Science and Engineering Fair 2018

U.S. Metric Association Best Use of SI Award - SW Washington Science and Engineering Fair 2018

1st Place, Plant Sciences - Washington State Science and Engineering Fair 2016

2nd Place, McKinstry Built Environment Challenge for Technology - Alaska Airlines Imagine Tomorrow 2016

2nd Place, Material Engineering and Bioengineering - Washington State Science and Engineering Fair 2015

John Philip Sousa Band Award - Camas High School Band 2018

Always Windy Four Years of Wind Ensemble Award - Camas High School Band 2018

Jazzy Joe Jazz Guitar Award - Camas High School Band 2018