Niyanth Mahesh



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# **Education**

**John Burroughs High School** Burbank, CA

GPA 4.6 May 2023

Relevant Coursework: Ap Physics 1 / 2, Ap Calculus AB/BC, Ap Stats, Engineering, Spanish 3

National Honor Society, President of Cycling and Calculus Club, Member of Varsity Tennis

**Glendale Community College** Remote

GPA 3.813 January 2020 - May 2022

Relevant Coursework: Java, Cloud Computing, French 102

# FRC Team 980 Robotics **Experience**



**Mechanical Design Lead** January 2022 - May 2022

* Led a small team in the creation and design of the overall assembly and parts for the 2022 FRC competition.
* Taught them how to use Solidworks and verified parts and drawings.
* Created part drawings and helped the Fabrication with the assembly.

**Raytheon** Remote

**Mechanical Design Intern** June 2021 - July 2021

* Designed and developed an Omni-directional Treadmill of my own design using Solidworks.
* Developed a budget for materials, production, and electronic components focusing on cost and efficiency.
* Produced a pitch, process of development, and project time for the product.

**JBHS Survey Kiosk** Remote

**App Developer Intern** January 2021 - June 2021

* Worked with a team to create a supermarket survey app.
* Installed several accessibility features including text to speech and color contrast.
* Created and organized data received.

# **Leadership**

# **FLL Robotics** Burbank CA

**Mentor** August 2020 - November 2020, September 2021 - November 2021

* Introduced two groups of elementary schoolers to robot design and block coding.
* Guided their process in creating and coding a lego robot for the FLL competition.

**AP Calculus Club**  Burbank CA

**President / Tutor** August 2021 - Present

* Supervised tutors and developed weekly lesson plans to tutor and encourage calculus.
* Created a program where high schoolers could tutor middle schools in the area

**Skills**

**Design and Simulation:**  Solidworks, AutoCAD, CATIA, Matlab

**Programming Languages:** Java, Python (machine learning, computer vision), C++ (Arduino)

**Fabrication:** Lathe, Mill, 3D Printing. CNC

**Front End Web Development:** HTML, CSS, React, JavaScript

**Language:** Conversational Spanish and intermediate French