

# Vivian Monaco

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## EXPERIENCE

**United States Memorial Holocaust Museum, Washington, D.C.— Junior Ambassador, Tour Guide**

**February 2022 - PRESENT**

Completed 14 week “Bringing the Lessons Home Program” to become eligible to participate in the Stephen Tyrone Johns Summer Youth Leadership Program. Studied the Holocaust in Saturday classes where the history and lessons of the Holocaust were made relevant to today’s world. Encouraged to examine the implications of the Holocaust in my own life. Improved my ability to analyze current events that affect the larger world. Developed a concrete basis for exploring the nature of indifference, racism, and genocide, as well as my roles as a citizen of a democracy. Served as a tour guide for the Museum’s Permanent Exhibition.

## EDUCATION

**Thomas Jefferson High School for Science & Technology, Fairfax County, Virginia**

*Class of 2025*

**September 2021- June 2025**

6560 Braddock Rd, Alexandria, VA 22312

- 50 hours of community-service credit US Memorial Holocaust Museum (2022)
- JV Field Hockey (Fall 2021, 2022 - Team)
- JV Basketball (Varsity postseason division play) (Winter 2022)
- Varsity Softball (Spring 2022)
- Model United Nations Club (FY 2022)
- Black Student Union (FY 2022)
- Young Democrats Club (FY 2022)
- Techstravaganza, TWIST club

**Jefferson Middle School, Arlington, Virginia — International Baccalaureate Middle Years Program**

**September 2019 - June 2021**

125 S Old Glebe Rd, Arlington, VA 22204

- Co-Valedictorian
- President's Gold Medal - all A Honor Roll, 3 yrs.
- International Baccalaureate Community Service Project
- Model UN Team
- MS Girls Soccer Team (2019)

**Drew Model School, Arlington, Virginia — Montessori Primary, Lower Elementary & Upper Elementary**

**April 2013 - June 2019**

3500 23rd St S, Arlington, VA 22206

- Montessori Model United Nations
- Odyssey of the Mind (Team)
- Gold Medal Winner, Science Fair

## SKILLS

- Laser cutting
- 3d printing
- Graphic designing
- Lab equipment
- Power tools
- Machine learning and AI using python
- CAD/Fusion 360

## AWARDS

**Martin Luther King, Visual Arts Contest Winner (2018, 2019)**

**Model UN Holton Arms Conference - Blue Ribbon (2019)**

## LANGUAGES

English  
Conversational Spanish  
JavaScript  
Python  
C++

## Community Service Hours

90+

## ENRICHMENT PROGRAMS

### Team Tiny House, REESH & Systems Engineer

2022 - present

Working together with thirty (30) Thomas Jefferson High School Students to research, design, and construct a tiny house on wheels that balances sustainability and affordability. As a Renewable Energy/Electricity /Smart Home (REESH) team member and systems engineer my responsibilities include powering the house, setting up the internet, and integrating smart home technology into the Tiny House. The Tiny House will be showcased throughout Northern Virginia (at science centers, festivals, etc.) and provide resources to inspire sustainable living for youth and families in our area.

### United States Naval Academy

*Science, Technology, Engineering & Math (STEM),  
Summer Enrichment Program - Residential.*

**Summer Session II: 2022**

Selected from over 5000 applicants for 250 spots to participate at the summer enrichment program at the US Naval Academy for 9th-11th grade students from all over the county. The program is a vibrant week of problem solving, exploratory learning, critical thinking, and team building on STEM related projects.

### University of Virginia

*SEP, Summer Enrichment Program -Residential.*

**Summer Session II: 2019**

**Summer Session III: 2018**

In conjunction with the UVA School of Education and Human Development, students accepted into the Summer Residential program spend the sessions engaged in meaningful learning experiences. Specifically, a variety of course offerings from UVA staff across multiple disciplines provide the opportunity to engage in interactive learning experiences that model the work of experts. As such, the courses at SEP are designed to foster (1) exploration of individual student interests, (2) critical and creative thinking, and (3) production of authentic student products.

Alexandria, VA

### Montessori Model United Nations, (United Nations General Assembly)

Upper Elementary Montessori Conferences

**2017,2018,2019**

Montessori Model United Nations is a collaboration with the United Nations. Montessori Model UN is a division of Youth for a Better World, a 501(c)3 non-profit organization, recognized as an NGO in Special Consultative Status by the Economic and Social Council (ECOSOC) of the United Nations. In the Montessori Model UN (MMUN) program students spend 21 weeks in the classroom learning : research skills, writing skills, and written & oral communications skills as they develop critical thinking skills, problem-solving skills, and evaluative skills. Students debate current global issues and world problems and practice and use leadership skills in a real-life global situation. At the end of the 21 weeks, student delegates attend a conference in NYC with 1500 Montessori students from 30 countries. The culmination of this multi-day global education simulation experience is at the United Nations General Assembly, where student delegates vote on the resolutions they created in committee meetings. They understand the need for peace and conflict resolution throughout the world while developing their own conflict resolution and debating skills.

Annapolis, MD

### Odyssey of the Mind

Drew Model School

2016

Odyssey of the Mind teaches students how to develop and use their natural creativity to become problem-solvers. Imagine being faced with a problem that requires an original solution. It can be frightening. Now imagine not being afraid to solve that problem – that is what OM members learn. This skill and self-confidence will carry over to all areas of their lives. OM brings the classroom to life as students apply what they learn and

Charlottesville, VA

combine it with their interests and passions to solve our unique open-ended problems. OM also emphasizes teamwork, budgeting, time management, public speaking, and so much more. This international program is designed to help students at all learning levels grow as individual learners, grow as team members, and to reach their full potential.

## Athletics

### Softball:

- Thomas Jefferson High School of Science & Technology, Varsity (9th grade)
- Travel: Glory 16U (National -Falls Church, Virginia) 2021,2022, 2023
- Yorktown High School, JV (as an 8th grader, Arlington ,VA) 2021
- Travel, Glory 14U (National - Falls Church, Virginia) 2021
- Travel, Sage 12U (Arlington, VA) 2017
- Recreational: Arlington, VA 2012-2017

Arlington, VA  
& New York City, NY

### Basketball:

- Recreational: Arlington, VA 2012-2017 (COVID)
- Thomas Jefferson High School of Science & Technology, Junior Varsity (9th grade)

### Field Hockey:

- Recreational: Arlington, VA (COVID)
- Recreational: Great Falls, VA
- Thomas Jefferson High School of Science & Technology, Junior Varsity (9th grade & 10th grade - Team Captain)
- Thomas Jefferson High School of Science & Technology, Varsity Captain (10th grade)

### Sailing:

- US Sailing, Sailing Course Completion, Sunfish Captain (2016) Washington Sailing Marina, Alexandria VA
- US Sailing, Sailing Course Completion, Sunfish Crew (2015) Washington Sailing Marina, Alexandria VA

### Soccer:

- Travel: ASA Red (Alexandria, Virginia) 2021 (COVID)
- Developmental: ASA (Arlington, VA) 2017
- Recreational: Arlington, VA 2012-2017

Arlington, VA

## Community Service & Community Outreach

**TJ Techstravaganza 2022, Twist Leadership (Volunteer)**

**TJ TechMUN 2022, TJMUN Typing Staff(Volunteer)**

**BTLH Ambassador**

## High School Clubs & Out-of-School Activities

### TJHSST Rocketry

Compete in TARC (The American Rocketry Challenge) (10th grade)

- Open rocket source design
- 3d printing/laser cutting

- Building and testing

### **TJHSST Space Program**

The TJHSST Space Program works alongside NASA and other Space companies to design/build CubeSats. In 2023 we sent REVERB loaded in the SpaceX Dragon. It was later deployed from the ISS.

- Electronics and Outreach Team (9th grade, 10th grade)
- GLEE Electronics Lead
- AMSAT Electronics Lead
- Social Media Lead
- Contacted manufacturers and applied for grants

### **TJHSST Botball Robotics**

At TJHSST Botball robotics we design and build a robot to compete in the annual Botball robotics competition.

- Member: 10th grade
- CAD, electronics, programming.

### **TJHSST UAV, Unmanned Aerial Vehicle**

At TJ UAV, we work on our competition plane Avalon. Avalon is an autonomous aircraft with a rover payload and camera. We compete in the SUAS competition.

- Mechanical Engineer (10th grade)
- Avionics

### **AIM Robotics**

- Robotics team member (10th grade) Fairfax County, VA

### **COCA, Connected Crosswalk Assistance**

- Software Engineer
- CAD/Fusion 360

### **Generation Ratify**

Generation Ratify is the youth-led movement to ratify the Equal Rights Amendment and advance gender equality in the United States of America. I'm passionate about social justice, so I founded the TJHSST chapter to promote equality and change in my community.

- TJHSST Chapter Founder (10th grade)

### **Project Empower**

Project Empower is a student led initiative that creates software-based solutions to help the first-generation in low-income communities.

- Programmer, Machine Learning

### **Academic Decathlon**

We compete in the USAD competition annually.

Member: 10th grade

### **Girls and Literature**

Girls and Literature is a student-led non-profit whose mission is to assist girls globally who lack access to books.

- Executive Committee: Fundraising Team (10th grade)

### **Through Teen Lenses, Student Run News Organization**

Through Teen Lenses is a student run news organization that provides students with a platform to share their beliefs.

- Graphic Designer for Club (9th grade, 10th grade)
- Graphic editor

### **InvestHER**

- Graphic Designer for Club (9th grade, 10th grade)

### **TJHSST Biology Society**

- Member: 9th grade
- Led presentations/activities

### **Black Student Union**

- Member: 9th grade, 10th grade

### **Model United Nations**

- Tech Model United Nations (2022) sponsored by TJ MUN club (9th grade)

### **Young Democrats Club**

- Member: 9th grade, 10th grade

### **Miracle Foundation**

- Events Team (10th grade)

## **Academic & Artistic Competitions**

### **Academic:**

- HackTJ
- InnovateTJ

### **Artistic:**

- Congressman Connolly's Congressional Art Competition Reception (May 22, 2022)

