

MARIBELLE

CHU

innovative environmental
engineering projects.



EDUCATION

**Thomas Jefferson
HS for Sci/Tech**
GPA: 4.3 / 4.0
Aug 2020 - June 2024

LINKS

Website:
maribellechu.com
LinkedIn:
Maribelle Chu

COURSEWORK

Precalculus
AP CS
Prototyping Dev
Design +Tech
MIT EdX
Entrepreneurship
Bioplastic Research

SKILLS

Engineering
2+ Years Experience
Arduino • Prototyping
NASA Best Design
Sensors • CAD
Mechanical Engineering
Fusion 360
Experienced
Inventor Autodesk
Robotic Vehicles

Programming
2+ Years Experience
Java • Python • HTML
C++ • JS • CSS
Arduino • Django
Experienced
Flask • Linux • Ubuntu

HOBBIES

Varsity Soccer • Reading
Writing • Hiking • Music
Production • Piano
Composition • Dancing
Songwriting • Watercolor
Sketching • Web Design

TRAITS

Leader • Reliable
Adaptable • Empathetic
Intelligent • Determined
Effective • Efficient

EXPERIENCE

Children's Science Center | Youth Leadership Corps Sep 2015 - Jun 2019

- Operated GMU Maker Faire, Family Science Nights
- Developed science experiments for LAB
- Presented at 2018 USE Science and Engineering Festival
- Counselor in Training at Summer Camp

NOVA Science Center | Youth Advisory Board Aug 2020 - Present
Aug 2020 - May 2021: Website Team Lead

May 2021 - May 2022: New Member Coordinator (Leader)

May 2022 - Future: Co-chair

- Created the YAB's website
- Won the Forward Turn Grant with team and elected to represent the YAB
- Promoted to YAB Leader, jointly oversees three sub-teams of the YAB: Events, Marketing/Outreach, and Grant Management as YAB Leader

GIVE Youth | Center Manager Sep 2020 - Present

- **Sep 2020 - July 2021:** Tutored students virtually during the COVID-19 pandemic for education
- **Aug 2021 - Present:** hosts weekly tutoring sessions at Fairfax County Public Libraries
- Organizes, prepares, and manages each weekly tutor session

TJ Techstravaganza | Organizer Aug 2021 - Present

- Help organize TJ's largest STEM event, attracting thousands of families each year
- Contacts schools, business, public officials, and families to market event

RESEARCH AND TEAMS

Aug 2021 - Present

FIRST Tech Challenge Team 14607 | Design and Build Team

- Worked with team to engineer robot, enhancing skills in CAD, structural design, and building
- Planned and hosted Title 1 School weekly mentoring for FIRST Lego League Team, inspiring kids through STEM

Capstone Research Project | Team Lead Aug 2021 - Jun 2021

- Collaborated to invent a bioplastic, 100% natural, biodegradable cup

**Virginia Space Grant Consortium | Building Leaders for
Advancing Science and Technology (BLAST)** July 2021

- On-campus summer STEM program at University of Virginia

**Fairfax County Park Authority | Environmental Student
Leadership Initiative (ESLI)** July 2021

- Analyzed environmental health, collecting and analyzing data in parks

Team Tiny House | Founder + President Mar 2022 - Present

- Spearheaded engineering of sustainable tiny house including renewable energy technologies and automation.

Smart Home Integration | Home Project March 2022

- Created, automated, coded Arduino light switch system using IR remote to save energy and time

BEYA Stars and Stripes Mentorship Program Sep 2020 - Present

- Member of engineering mentorship program geared to help high school students advance their engineering education.

Junior Leaders in Finance Fellow Sep 2020 - Present

- Learned accounting lessons, financial literacy, career guidance, scholarships, mentorship from undergraduate finance program.

US Certified Soccer Referee July 2020 - Present

- Gained confidence consulting with adults and parents in a high stakes environment.