

# Mukilteo Robotics - Annual Report

March 2024



WASHINGTON STATE  
CHAMPIONSHIP



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# Our Mission Statement

A photograph of a group of approximately ten students of diverse ethnicities and ages in a school gymnasium. They are all smiling and looking towards the camera. Many of them are wearing dark t-shirts with 'Mukilteo' or 'VEX' printed on them. Some students are holding small VEX robotics modules. The background shows gymnasium bleachers filled with spectators and various school-related decorations like flags and banners hanging from the ceiling.

The Mukilteo Robotics Organization is committed to fostering a community of innovation and collaboration where students of all backgrounds can explore and develop their skills in STEM fields, free of charge. Through VEX Robotics, we aim to challenge and inspire our members to think critically and work as a team. We strive to create an inclusive and supportive environment where all students have the opportunity to learn, grow, and excel.

# The Club



Christian, Aiden, Ethan, Jay, Ji-Yoon, Naysa, Santiago, Joseph, Sid, Derek, Long, Oliver, Scott, Sean, Vincent, Bruce, Daniel, Junhao, Kevien, Justin, Wyatt, Tobi, Curtis, Emma, Seo-Yoon, Sofia, Virginia, Vivian, Daniel, Emily, Lily, Logan, Minh, Nathan, Ruslan, Ryan, Serena, Son, Brian, Ivy, Joseph, Murugan, Olivia, Rachel, Wanhaao

**45** *the number of students who passed through the doors and the vast majority kept coming back.*



# Our Leadership



**Rachel Chu**

President



**Ruslan Mukhamedvaleev**

Vice President & PR



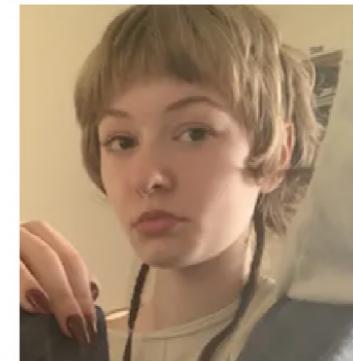
**Joseph Na**

Treasurer



**Wanhai Zhang**

Treasurer



**Trillium Keith**

Secretary



**Pete Stiles**

Director



# Opportunities

What you, our sponsors, made possible was an incredible learning opportunity for 45 students in Middle School, High School and in the Mukilteo School District in Mukilteo, Washington. 22 of these students were new to the club this year. 23 came back because they really enjoyed the opportunities they had received from previous years.

These students learned programming, how to turn a screwdriver, how to manage their time, how to collaborate, how to work together, how to be respectful of each other, how to solve problems, how to document their work in an Engineering Notebook, how to write autonomous programs with sensors for feedback, how to compete, and how to take pride in STEM accomplishments.

They also ate a lot of Oreos, pulled all-nighters, and talked and laughed and screamed.

Students did this all at no cost to them, thanks to your contributions !!!

# Competitions - 2023/2024 Over Under Season

## **Lake Stevens VRC League**

We were fortunate to have two teams in an alliance to win the competition.

## **Lake Stevens Turkey Trot**

One team made it to the finals, but lost.

## **Snake River Rumble**

Another competition were we made it to the finals and lost.

## **Ignite the Northwest VRC Signature Event**

*Really tough 3-Day competition with teams from all of North America.*

## **Highland Games**

*Another competition were we made it to the finals and lost.*

## **Cavelero Cup**

We made it to the semi-finals and lost.

## **2024 Washington VRC Middle School Regional Championship**

Great learning experience.

## **2024 Washington VRC High School Regional Championship**

Wow - Washington State is competitive - humbling - good learnings.

# Worlds 2022/2023 World Championships

In the 2023 VEX Spin Up Washington State Championship Tournament, one Mukilteo Robotics team qualified for a spot in the World Championships with a win by just 4 points. It was first time we qualified for Worlds since the rebuild after the pandemic.

No, we didn't win, but it was exciting. A once in a lifetime opportunity. A chance for 6 High School Seniors to compete against the best of the best from all around the world. A three day event in Dallas, with family in attendance.

*This amazing experience was almost completely funded by a generous donation from Fastest Labs of Corpus Christi.*

# Finances

B3

**\$29,244.77**

*The unbelievable amount of donations received by Mukilteo Robotics this fiscal year.*

**\$16,867.98**

*Operating costs for the year for 5 teams in the club. This includes team registrations, local competition fees, field components, hardware and miscellaneous expenses. These expenses were covered by generous donations from Electroimpact, Analog Devices, and a variety of local companies and individuals. In addition, Electroimpact provides an in-kind donation of 1700 square feet of practice space.*

**\$11,021.59**

*Cost of attending VEX World Championships. The vast majority of the funding for this Trip was provided by Fastest Labs of Corpus Christi. Mukilteo Robotics had one team qualify for the competition in Dallas and it was a great celebration for all. We didn't win by the way.*

**\$1,355.20**

*This leaves us with a positive balance to start the new season*

# Goals for 2024-25



***Some of the things we learned from this year, that we plan to address:***

- Improvements in Team Building/Bonding
- Utilization of Project Management Tools
- Better community outreach and community service
- Decrease the attrition rate of women in the club



# Thank You!

*For helping:*



## 45 students enjoy

- 6 hours of screen free time each week while participating in competitions on
- 9 different days while showing off their work at
- 2 different Elementary and Middle School exhibits and helping
- 20 Middle School students learn about VEX IQ robotics weekly in a school club.

While developing a passion for STEM, especially Engineering and Computer Science.

This is what your support provided - without you, it would not be possible! →

# History

Mukilteo Robotics is an all-volunteer, independent club, founded in 2017. It was established due to a lack of STEM opportunities provided by the local school district. Like many organizations, Mukilteo Robotics faced significant challenges during the pandemic, but we chose to persevere and thrive.

Our club has come a long way from a single small team of 6 members in a living room to 40 members with loaned space from a local company. We have continued to strive to provide the knowledge, the hardware, the time and the competitive spirit to develop a passion for STEM. Mukilteo Robotics is supported by a cadre of volunteers (mostly parents) to provide guardrails and guidance along the STEM journey. This is all done at no cost to students due to support from local and national companies, along with many individuals.

This season was very active with lots of new members who will be returning and graduated members who offered great mentoring to the younger students.

# Comments From Students

“This club as been one of the best things that has happened to me and I am so thankful for the opportunity”

“Mukilteo Robotics really helped me survive my senior year”

“I’m excited about the teamwork because you get to collaborate with your peers and have fun all while doing something you enjoy”

“Chance to build up our creative and critical thinking skills”

“I really grew to love robotics”

“I’ve been able to work with other people on code and gotten a lot of hands on experience, which is something I couldn’t get on my own, so its helped me a lot”

*We can keep this going with contributions through <https://www.mukilteorobotics.org/support>*

*Or by contacting Pete at [Mukilteorobotics@gmail.com](mailto:Mukilteorobotics@gmail.com)*