

# Robo Sumo Showdown

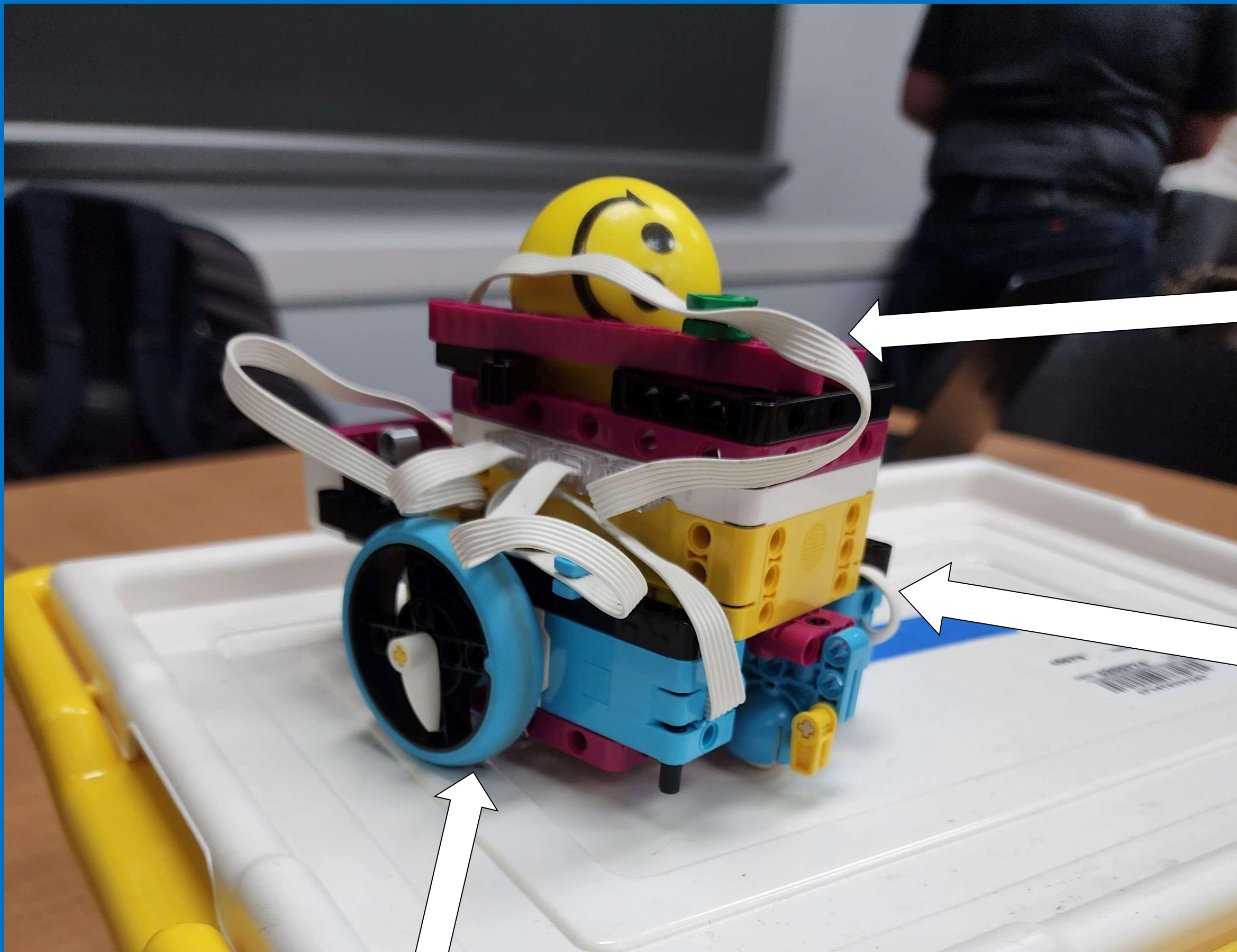
## Teaching Stem through Robotics

Organized By Raymond Wang

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Event Code: CPSS240  
College Park Scholars Academic Showcase, May 9, 2025



### Course Intro

Despite seeing our two robot contenders here, the main goal of CPSS240 was mainly about service learning and using robotics to aid us in learning about the teaching process. We explore the main differences between teacher-centered learning and student-centered learning

### Activities

During the first few weeks of teaching, we start off with introducing ourselves and explaining what we will be doing/teaching in the coming weeks. We first got them oriented with the lego robotics kits and their parts as well as start introducing how to code. We do this for the first 10 weeks of the club. The last 10 weeks are dedicated to making and coding a robot for the grand challenge which involves creating sumo robots and facing off against other groups in the club

### Site Info

School: Paint Branch Elementary School

Address: 5101, Pierce Ave,  
College Park, MD 20740

Site Goal: Foster learning in students attending the lego robotics/STEM club by teaching them how to build a robot and how to code said robot. Students will then build and code their own robot and complete the grand challenge that we have given.

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### Personal Thoughts

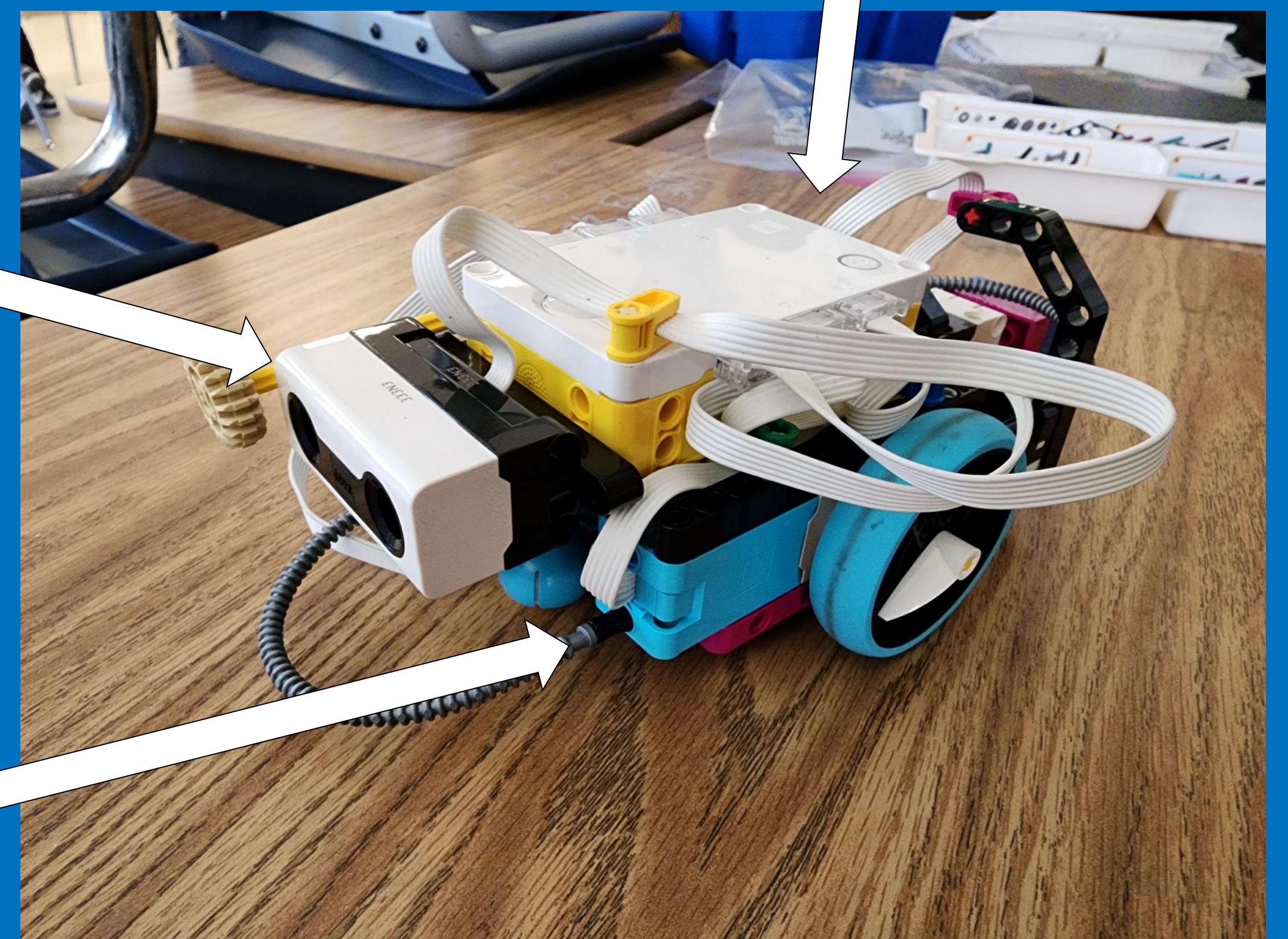
The overall class wasn't as challenging as I initially thought it would be. The lectures that we have in UMD are all related to STEM education and teaching, and we often connect what we discuss to our service-learning activities in our schools. In my service-learning site, while I did encounter some challenges, it was a very fun experience to go through plus it was rewarding to see the students that I am teaching having fun building and coding the robots

### Challenges

There were many challenges that I encountered throughout this course, the main challenge of course being the actual teaching itself. The students attending the lego robotics club at Paint Branch were mainly 5<sup>th</sup> graders along with a handful of students from grades 1-4. Since they are all elementary schoolers, it takes quite a bit of time to get them to settle down and focus on one thing at a time. This along with the limited amount of time that we were at Paint Branch made teaching progress very difficult at times.

### Acknowledgements

I would like to thank my SGC professors Dr Holtz and Dr Merck for leading me through the SGC program, my CPSS240 professor Dr. Lo for teaching us about service learning and teaching, as well as my CPSS240 TA and teammates for helping me through this class.



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