

Welcome to the July 2022 Meeting of the Seattle Robotics Society



Recording Starts at 10AM PT



Video Provided by Zoom



- We record our meetings and post them to Youtube later.
- We'll follow the agenda below.
- Suggestions and ideas are welcome.

Welcome

Club Business

Events of Note

Today's and future Presentations

Robothon Updates

SRS Robot Kits

Round-the-Virtual Room ← Save your sharing for here

Other items

--Short break (~10 mins)

Presentation

Conclusion

Robotics Discussion (not recorded)





Sharing Info and Links



Please **mute** your mic unless you are actively sharing.

Use the ZOOM Chat to ask questions, make comments, capture links, and any other information you wish to share during and after this meeting.



SeattleRoboticsSociety@gmail.com





Club Business



The new FIRST Washington venue has been selected. It is located just south of the old facility near [Metal Supermarket in Kent](#).

[New Facility Address: 22462 72nd Ave S., Kent, WA](#)

FIRSTWA isn't ready for us to use their facility yet. I will continue to monitor this to see when we can meet in person at their facility.



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Club Business



New SRS website is alive and kicking. All original content has been restored. The old SRS website and all its content is now accessible. Do pay a visit sometime soon.

www.SeattleRobotics.org

We're working getting the old Robothon website up and accessible.



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Club Business



We are planning hybrid (online+in-person) meetings once we resume in-person gatherings. This will increase the meeting setup and logistics, so I will need assistance from 1-2 people at the meetings to run the equipment (computers, cameras, etc.).

Can I count on y'all? Contact me at **SRS email**.



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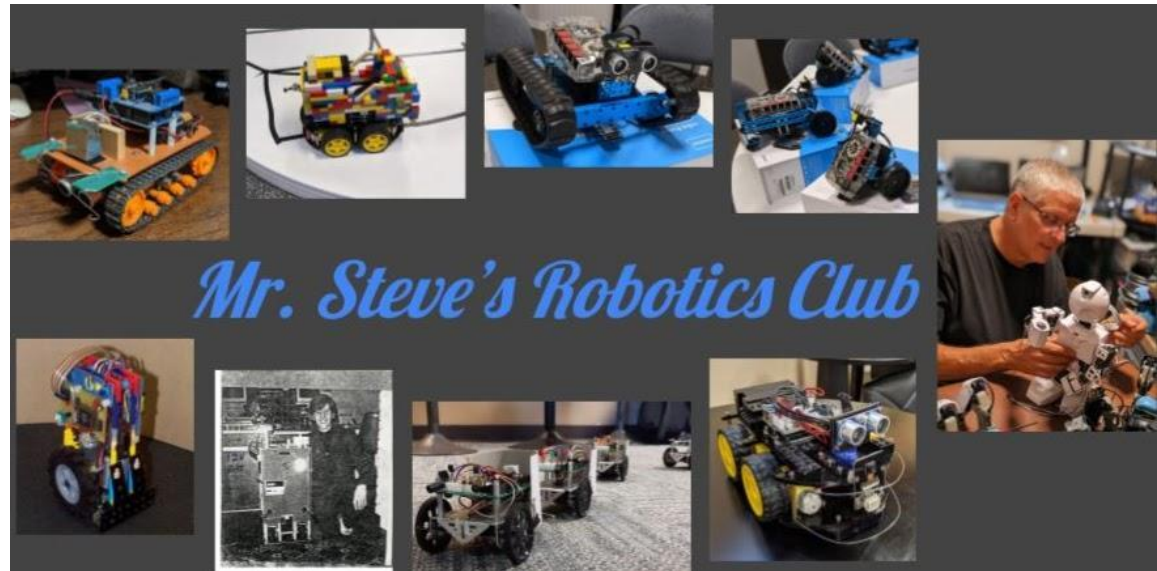
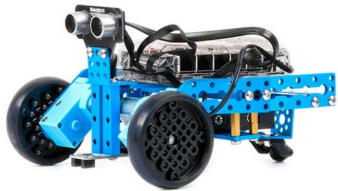




Kids Robotics Classes



I've officially launched my virtual weekly, fee-based robotics classes with **Middle School** children (11-14) using the mBot kits. If you know people who would be interested, FRIEND me on Facebook and/or **Email me at:**
SDKaehler@gmail.com





Events Coming



- [National Drive Electric Week](#) (NDEW) Events
 - Coming September 23 to Oct 2 all over US
 - See [Robot Events website](#) for national events





Please Solicit Presenters



- Invite online presenters from anywhere.
- International presenters might need alt. mtg time.
- Check time zone of presenter.
- Include the SRS email address in the cc: line.

- Presenting on one of your projects.
- Lead a facilitated topical discussion.

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2022-2023 Presentation Plan



July - James Newton - Wire-bots

Aug - Cecilia Olivera-Hillway - Art and Robotics

Sep - Antonio Loquercio: Drones & Magic

Oct - Dr. Nicholas Nadeau - Pybotics (open source Python T/B)

Nov - Ricardo Tellez - ConstructSIM

Dec - Facilitated Discussion on Telemedicine & Rem Patient Mon

Jan 2023 - *presentation: open*

Feb - *presentation: open*

Mar - *presentation: open*

Apr - *presentation: open*

May - *presentation: open*

June - *presentation: open*

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Open Discussion Forums



Could be Used to Fill Some Time before VRE

1. **Telemedicine & Remote Patient Monitoring**

2. Medical Diagnosis by Computers Instead of Doctors?
3. Robot Mobility Systems (Locomotion technologies)
4. How Robotics Helps People Function/Live/Connect
5. Interesting Robot Sensor Technologies
6. What About the Growing Skills Shortage?
7. Virtual/Augmented Reality
8. Autonomous Vehicles
9. Electric Vehicles & Technology
10. Other Topics: Send ideas to email below:

SeattleRoboticsSociety@gmail.com





Presentation Coming Shortly...

“WireBots” by James Newton

Technical Evangelist, Gardener, Robot Builder

Aerial camera systems are used in football and other sports broadcasts to provide a different view of the game for fans. The system devised by Cablecam, shown here, is used by Fox and CBS for some of their National Football League broadcasts.

THE SYSTEM

The camera platform is suspended from two ropes, anchored at a corner of the stadium. They pass through pulleys at the other corners and on the platform.

SAFETY

Two high-strength ropes are used. If one breaks, the other can support the platform.

THE CAMERA PLATFORM

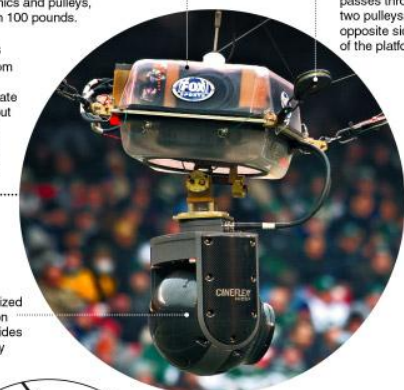
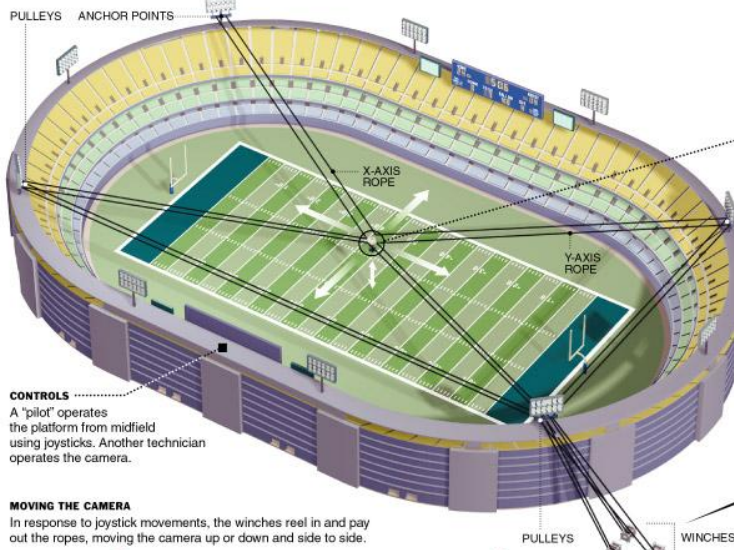
The complete assembly, with camera, electronics and pulleys, weighs less than 100 pounds.

SENDING SIGNALS
Video is sent from the camera through a separate fiber-optic line out the top. A small winch takes up the slack as the platform moves.

PLATFORM

PULLEYS

Each rope passes through two pulleys, on opposite sides of the platform.



CAMERA
A gyro-stabilized high-definition camera provides sharp, steady images.

WINCHES

The ropes pass through the x- and y-axis winches and end at the z-axis winch. Because it moves both ropes together, the z-axis winch moves the camera up or down.

CONTROLS

A “pilot” operates the platform from midfield using joysticks. Another technician operates the camera.

MOVING THE CAMERA

In response to joystick movements, the winches reel in and pay out the ropes, moving the camera up or down and side to side.

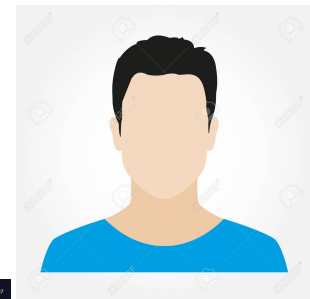


[LinkedIn Profile](#)



Robothon Committee

Next ROBOTHON event in 2022



Lloyd

Donna

Bob

Rob

Dave

Virtual Robothon Exhibitions
Aug 27, 2022 noon~3pm PT



(visit [Robothon.org](https://www.robothon.org) sign up)





Robothon Updates

Events Coming in 2022

SRS PopCan Challenge

October 1st 10A-2P

Hosted at SnoCo Makerspace

11604 Airport Rd., Suite D200 Everett, WA

<https://www.meetup.com/SnoCo-Makers/events/285094099/>

contact chas@snocomakers.org if you want to enter your robot.

* We will run a Zoom meeting during this event for remote spectators.





Post-Meeting Virtual Robotic Discussions

After the meeting, but not recorded.



SeattleRoboticsSociety@gmail.com





Round-the-Web

Have Something to Share?



- Who has something to share?
 - HF 30% off Coupon until tomorrow
 - ORESat Lab Tour Recap
- Wrap up by ~11:10 PT 5-10min break before pres.
- **Presentation**
- Meeting adjourned
- Virtual Robotics Discussion this month





B4 Break Review for Next Month



- Same ZOOM link next month
- Meeting recordings will be posted to website soon.
- Check SRS website for upcoming meeting details
- Help me find presenters:
- Send meeting feedback to:
 - SeattleRoboticsSociety@gmail.com
- **Thank you for sharing in the Chat!**
- The presentation is coming in about **6-9 minutes**



