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Ruth Anand is presenting

A force-sensitive robotic arm that utilizes AI based vision system to grasp objects intelligently

SMART ROBOTIC ARM FOR MANIPULATION



Ruth Anand, 12th grade, Anand Homeschool Academy, Akron OH

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Ruth Anand is presenting

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Dylan Berr is presenting

Strengthening Hydrophilic, Biodegradable Materials Using Chitosan and Cellulose

By Dylan Berr



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Dylan Berr is presenting

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Dylan Berr is presenting

Background



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Dylan Berr is presenting

Chitosan and Cellulose

Figure 1: Deacetylation of Chitin

CC1=CC=C(C=C1)C2=CC=C(C=C2)C3=CC=C(C=C3)C4=CC=C(C=C4)C5=CC=C(C=C5)C6=CC=C(C=C6)C7=CC=C(C=C7)C8=CC=C(C=C8)C9=CC=C(C=C9)C10=CC=C(C=C10)C11=CC=C(C=C11)C12=CC=C(C=C12)C13=CC=C(C=C13)C14=CC=C(C=C14)C15=CC=C(C=C15)C16=CC=C(C=C16)C17=CC=C(C=C17)C18=CC=C(C=C18)C19=CC=C(C=C19)C20=CC=C(C=C20)C21=CC=C(C=C21)C22=CC=C(C=C22)C23=CC=C(C=C23)C24=CC=C(C=C24)C25=CC=C(C=C25)C26=CC=C(C=C26)C27=CC=C(C=C27)C28=CC=C(C=C28)C29=CC=C(C=C29)C30=CC=C(C=C30)C31=CC=C(C=C31)C32=CC=C(C=C32)C33=CC=C(C=C33)C34=CC=C(C=C34)C35=CC=C(C=C35)C36=CC=C(C=C36)C37=CC=C(C=C37)C38=CC=C(C=C38)C39=CC=C(C=C39)C40=CC=C(C=C40)C41=CC=C(C=C41)C42=CC=C(C=C42)C43=CC=C(C=C43)C44=CC=C(C=C44)C45=CC=C(C=C45)C46=CC=C(C=C46)C47=CC=C(C=C47)C48=CC=C(C=C48)C49=CC=C(C=C49)C50=CC=C(C=C50)C51=CC=C(C=C51)C52=CC=C(C=C52)C53=CC=C(C=C53)C54=CC=C(C=C54)C55=CC=C(C=C55)C56=CC=C(C=C56)C57=CC=C(C=C57)C58=CC=C(C=C58)C59=CC=C(C=C59)C60=CC=C(C=C60)C61=CC=C(C=C61)C62=CC=C(C=C62)C63=CC=C(C=C63)C64=CC=C(C=C64)C65=CC=C(C=C65)C66=CC=C(C=C66)C67=CC=C(C=C67)C68=CC=C(C=C68)C69=CC=C(C=C69)C70=CC=C(C=C70)C71=CC=C(C=C71)C72=CC=C(C=C72)C73=CC=C(C=C73)C74=CC=C(C=C74)C75=CC=C(C=C75)C76=CC=C(C=C76)C77=CC=C(C=C77)C78=CC=C(C=C78)C79=CC=C(C=C79)C80=CC=C(C=C80)C81=CC=C(C=C81)C82=CC=C(C=C82)C83=CC=C(C=C83)C84=CC=C(C=C84)C85=CC=C(C=C85)C86=CC=C(C=C86)C87=CC=C(C=C87)C88=CC=C(C=C88)C89=CC=C(C=C89)C90=CC=C(C=C90)C91=CC=C(C=C91)C92=CC=C(C=C92)C93=CC=C(C=C93)C94=CC=C(C=C94)C95=CC=C(C=C95)C96=CC=C(C=C96)C97=CC=C(C=C97)C98=CC=C(C=C98)C99=CC=C(C=C99)C100=CC=C(C=C100)

Figure 2: Polysaccharide Structure

cellulose

Chitin

Chitosan

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Dylan Berr is presenting

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Dehydration synthesis

Figure 3-1 Biology (11th Edition), © 2011 Pearson Education, Inc.

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Preliminary Testing

Breaking Points of Cardboard Samples

Sample	Breaking Point (Kilograms)
control	~15
2-layer	~15
4-layer	~2
6-layer	~25

Breaking Points of Cardboard Samples

Sample	Breaking Point (Kilograms)
control	~2
2-layer	~15
4-layer	~25
6-layer	~15

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Methods-Layering



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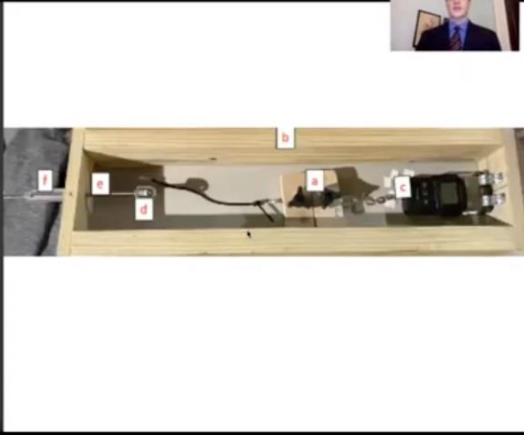
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Methods:Testing



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Results

Cardboard	Tukey Test	
Amount of Load	Sig. vs. Mean	Post-hoc
0 vs. 2	non-sig.	P<0.05
0 vs. 4	sig.	P<0.01
0 vs. 6	sig.	P<0.01
2 vs. 4	non-sig.	P<0.05
2 vs. 6	sig.	P<0.05
4 vs. 6	non-sig.	P<0.05

Differences in mean strength between sample sets.

Paperboard	Tukey Test	
Amount of Load	Sig. vs. Mean	Post-hoc
0 vs. 2	non-sig.	P<0.05
0 vs. 4	sig.	P<0.05
0 vs. 6	non-sig.	P<0.05
2 vs. 4	non-sig.	P<0.05
2 vs. 6	non-sig.	P<0.05
4 vs. 6	non-sig.	P<0.05

Differences in mean strength between sample sets.

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Dylan Berr is presenting

Discussion

- Due to the overall P-value of 0.0001 (cardboard) and 0.044134 (paperboard), the first expectation (Coating corrugated cardboard pieces in layers of chitosan and cellulose layers, will strengthen them) was met for both materials
- The second expectation was not met, as the mean strength of the six-layer paperboard samples decreased from the mean strength of the four-layer paperboard samples by 3.234 kg
- In the paperboard Tukey Test, all differences in mean strength were insignificant ($P > 0.05$) except the increase from the control to four layer samples ($P < 0.05$).
- The structures of the six layer samples could have suffered too much water damage using the spray bottle method.
- According to the Tukey test, a difference of two layers between samples is too small a difference.

Participants: You, Dylan Berr, Joe Spagnuolo, Ruth Anand, rachael toma..., Mike Galgoczy, Vijay Anand, John Anand, GARY P

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Dylan Berr is presenting

Conclusion

- The goal of this project was to strengthen biodegradable, hydrophilic materials by adding chitosan and cellulose polymers.
 - The expectations were:
 1. the samples that contained chitosan and cellulose polymers would be stronger than their regular counterparts.
 - This expectation was met both materials.
 2. The samples that contained the greatest amount of chitosan and cellulose polymers would be the strongest.
 - This expectation was not met by both materials.
 - By spraying these carbohydrates onto materials like corrugated cardboard, the eventual goal for next year is to be able to attain samples just as strong as double or triple corrugated cardboard.
 - The initial degradation process of unlayered paper compared to layered paper using artificial weathering techniques will also be analyzed.

Participants: You, Dylan Berr, Joe Spagnuolo, Ruth Anand, rachael toma..., Mike Galgoczy, Vijay Anand, John Anand, GARY P

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LoWER: Low-power, Wide-range Emergency Radio - NEOSEF 2021

LoWER: Low-power, Wide-range Emergency Radio



A Texting based, Solar-powered Communication System for use in natural disasters

John Anand
8th grade, Anand Homeschool Academy
Akron, Ohio

Ruth Anand | David Anand | Vijay Anand

Dylan Berr | Mike Galgoczy | rachael toma...

You | John Anand | Joe Spagnuolo

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Hurricane Maria
Puerto Rico

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Dylan Berr | Mike Galgoczy | rachael toma...

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The Solution - LoWER

A Low-power, wide-range Cell phone companion unit for use in natural disasters with solar charging capability

- Send text messages**
A device to send text messages using your cell phone
- Without Cell service**
Without needing cell services or Wi-Fi, covering over 6 miles
- Without power supply**
With a solar panel and powerbank to power your phones

LoWER : Conceptual drawing

Antenna, Solar panel, USB ports for phone connection and charging

Participants: You, John Anand, Joe Spagnuolo, Dylan Berr, Mike Galgoczy, rachael toma..., Ruth Anand, David Anand, Vijay Anand

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Building the Dipole and Planar disk antennas

Cutting the copper tubing, Assembling the dipole, Stripping the Coax cable, Assembled antennas on 10 ft PVC with cables

Participants: You, John Anand, Joe Spagnuolo, Dylan Berr, Mike Galgoczy, rachael toma..., Ruth Anand, David Anand, Vijay Anand

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My Solution - LoWER

A Low-power, wide-range Cell phone companion unit for use in natural disasters with solar charging capability




Send text messages

A device to send text messages using your cell phone




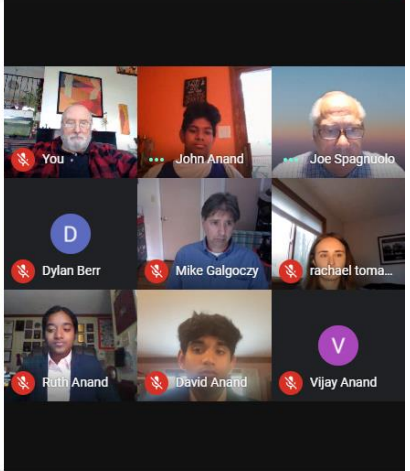
Without Cell service

Without needing cell services or WiFi, covering over 6 miles



Without power supply

With a solar panel and powerbank to power your phones


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LOWER SYSTEM COMPONENTS




The Radio




The Battery






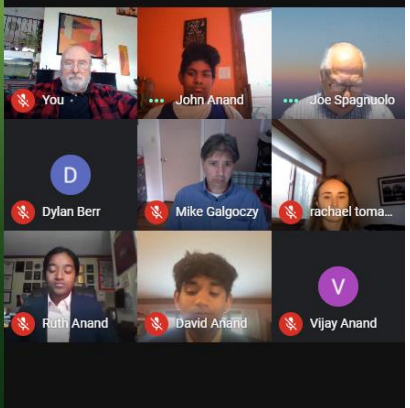
The brains



The Case



The Charger



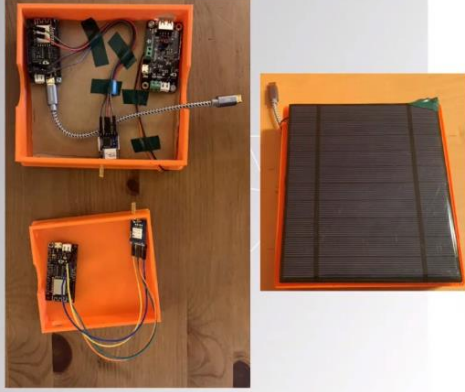
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LoWER a working Prototype



- Long range Texting**
Using the latest LoRaWAN technology, can cover up to 3 Kms (or more)
- Consumes less power & Solar chargeable**
Optimized to consume less power and can also charge your phone
- Low cost and durable**
More than 75% lower than competing products, encased in a durable casing

LoWER Comms 11




Participant grid showing: You, John Anand, Joe Spagnuolo, Dylan Berr, Mike Galgoczy, rachael toma..., Ruth Anand, David Anand, Vijay Anand.

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Video showing a hand holding a smartphone displaying a messaging app interface.



Participant grid showing: You, John Anand, Joe Spagnuolo, Dylan Berr, Mike Galgoczy, rachael toma..., Ruth Anand, David Anand, Vijay Anand.

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Google Meet interface showing a presentation slide titled "Credits" with text: "Thanks to my parents Vijay and Ammu Anand and my siblings Ruth and David for all their help in making this video". The slide is presented by John Anand. The meeting title is "AICHe April Meeting - NEOSEF Winners". The time is 6:34 PM. A grid of participants is visible on the right side of the screen.

Google Meet interface showing a gallery view of participants. The meeting title is "AICHe April Meeting - NEOSEF Winners". The time is 6:35 PM. The participants visible in the grid include: You, John Anand, Joe Spagnuolo, Dylan Berr, Mike Galgozy, rachael tomasko, Ruth Anand, David Anand, and Vijay Anand. The interface includes standard meeting controls at the bottom.

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rachael tomasko is presenting

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6:36 PM

The potential of *Elophila obliteralis* larvae (waterlily leafcutter moth) as a biological control for the invasive aquatic plant *Nymphoides peltata* (yellow floating heart)
 Rachael Tomasko, Padua Franciscan High School, Parma, 44134

Research questions
 Does *Elophila obliteralis* larvae (waterlily leafcutter moth) have the potential to be a biological control for the invasive aquatic plant *Nymphoides peltata* (yellow floating heart)?
 What ratio of larvae to plant leaf surface area will decline the leaf surface area the most?

Methodology
 To determine the effectiveness of *E. obliteralis* larvae on consuming the leaves of *N. peltata* to control its growth:
 Aquatic tanks were set up to contain an equal amount of water and substrate, one plant, and 12 hours of light daily
 Surface area of the leaves was measured using LeafScan app
 Initial measurement
 Weekly for 5 weeks
 Treatments (replicated 5 times)
 Control - no larvae
 1:5 ratio - 1 larvae to every 5 cm² leaf surface area
 1:4 ratio - 1 larvae to every 4 cm² leaf surface area

Data Analysis & Results
 Percent Change: Treatment Means
 Interpretation & Conclusions
 Mean (± SD) percent change from week 0-5
 Control: +0.43 ± 22.20
 1:5 ratio: -49.37 ± 25.46
 1:4 ratio: -71.27 ± 21.95
 Statistically significant difference among treatment groups (F= 10.51, p=0.002) shows a significant effect of the larvae on plant surface area
 The results support the hypotheses:
E. obliteralis larvae can be a potential biological control for *N. peltata*
 The greater the ratio of *E. obliteralis* larvae to leaf surface area (cm²) the greater the decline of *N. peltata* leaf surface area

one-way repeated measures ANOVA

F	P-value
10.51	0.002

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John Anand is presenting


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SAM - Smart Robotic Arm for Manipulation

A force-sensitive robotic arm that utilizes AI based vision system to grasp objects intelligently

SMART ROBOTIC ARM FOR MANIPULATION



Ruth Anand, 12th grade,
Anand Homeschool Academy, Akron OH

Video player: 0:00 / 1:58

Participants: You, Joe Spagnuolo, John Anand, Ruth Anand, rachael toma..., Mike Galgoczy, David Anand, Dylan Berr, Vijay Anand

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FANUC Industrial Robots at AUDI



Pause (k)

0:39 / 2:08

Scroll for details

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A force-sensitive robotic arm that utilizes AI based vision system to grasp objects intelligently

ARTIFICIAL INTELLIGENCE

SMART ROBOTIC ARM FOR MANIPULATION

Participants: You, Joe Spagnuolo, John Anand, Ruth Anand, rachael toma..., Mike Galgoczy, David Anand, Dylan Berr, Vijay Anand

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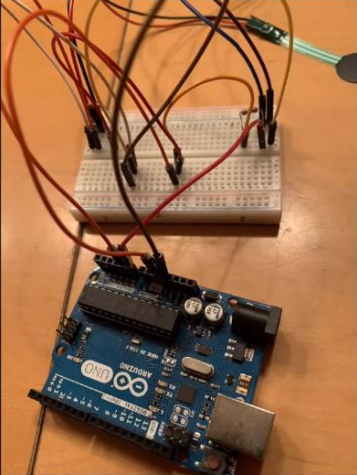
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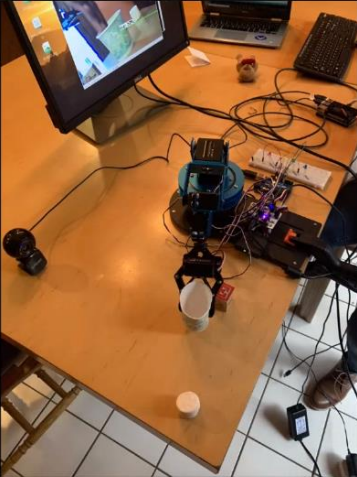
(3,516 unread) - jyrko@sbcgl... x | Inb... - yurkojoe5@gmail.co... x | Meet - AICHE April Meeting x | Google Calendar - Week of April x | +

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Big help in Prosthetics

https://www.fishinsurance.co.uk/thehub/categories/prosthetics/top-advancements-in-prosthetics-in-2020/

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GREEN EGGS AND HAM

Dr. Seuss

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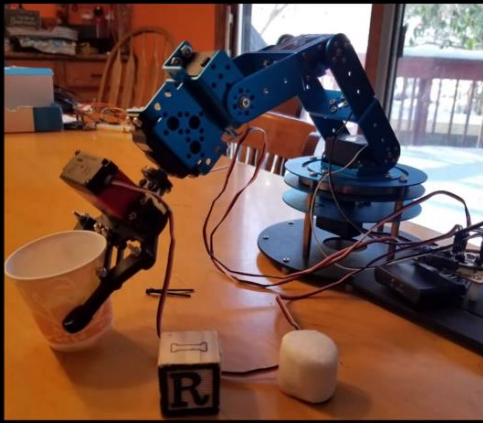
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John Anand is presenting

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6:43 PM



Participants: You, Joe Spagnuolo, John Anand, Ruth Anand, rachael toma..., Mike Galgoczy, David Anand, Dylan Berr, Vijay Anand

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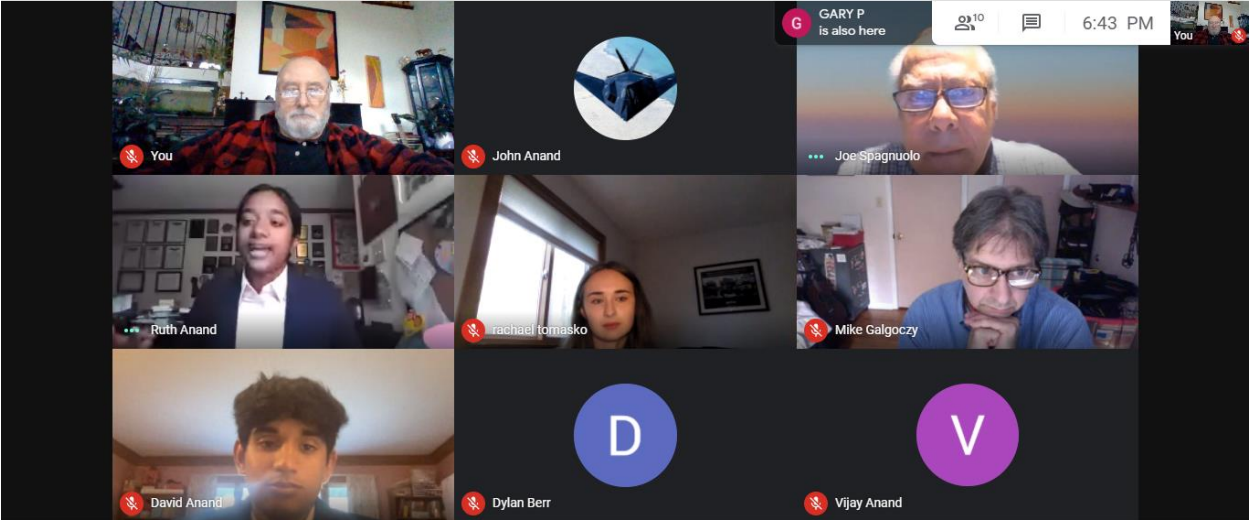
John Anand is presenting

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6:43 PM



Participants: You, John Anand, Joe Spagnuolo, Ruth Anand, rachael tomasko, Mike Galgoczy, David Anand, Dylan Berr, Vijay Anand

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Present now

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John Anand is presenting

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6:45 PM

Intelligent Space Junk Sweeper



Participants: You, Joe Spagnuolo, John Anand, David Anand, Ruth Anand, rachael toma..., Mike Galgoczy, Dylan Berr, Vijay Anand

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6:45 PM



Satellites & Space Debris

Are you talking? Your mic is off. Click the mic to turn it on.

Participants: You, Joe Spagnuolo, John Anand, David Anand, Ruth Anand, rachael toma..., Mike Galgoczy, Dylan Berr, Vijay Anand

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John Anand is presenting

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6:46 PM

Intelligent Space Junk Sweeper

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John Anand is presenting

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6:46 PM

Identifying Space debris from real satellites using an AI based vision system and RF signal detection

Intelligent Space Junk Sweeper

David Anand
10th Grade, Anands Homeschool Academy,
Akron, OH

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John Anand is presenting

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6:46 PM



Participants: You, Joe Spagnuolo, John Anand, David Anand, Ruth Anand, rachael toma..., Mike Galgoczy, Dylan Berr, Vijay Anand

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6:46 PM



Prototypes of Space Orbit Simulators

Participants: You, Joe Spagnuolo, John Anand, David Anand, Ruth Anand, rachael toma..., Mike Galgoczy, Dylan Berr, Vijay Anand

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John Anand is presenting


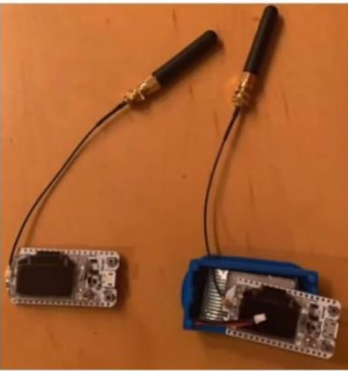
GARY P is also here

6:47 PM

Satellite RF signal Simulation

915MHz ESP32 LoRa 0.96 OLED Development Board
WiFi Bluetooth SX1276 TransceiverModule

- Built the RF Transmission circuit and Receiver circuit
- Sent signal from the Tx unit in the Satellite
- Detected signal using the Rx unit

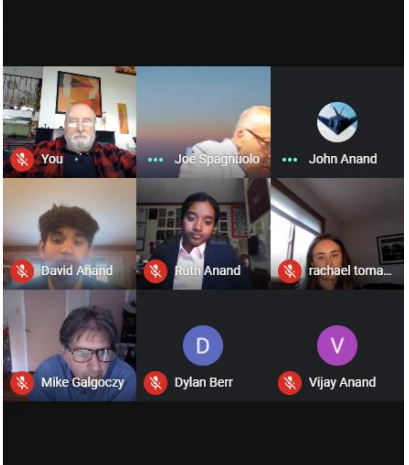


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John Anand is presenting

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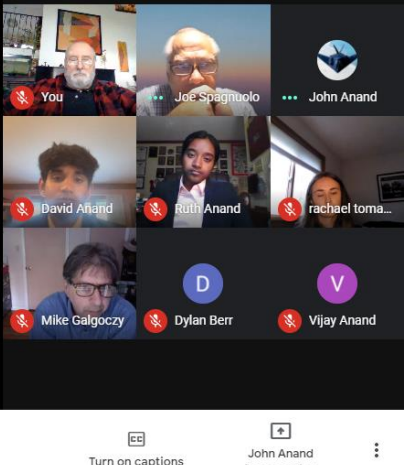


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6:47 PM 4/22/2021

AICHe April Meeting - NEOSEF Wi...

6:52 PM 4/22/2021

People (5)

IN CALL

- Joe Yurko (You)
- Dylan Berr
- GARY P
- Joe Spagnuolo
- Mike Galgoczy

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AICHe April Meeting - NEOSEF Wi... X

People (5) Chat

IN CALL

- Joe Yurko (You)
- Dylan Berr
- GARY P
- Joe Spagnuolo
- Mike Galgoczy

Turn on captions Present now

AICHe April Meeting - NEOSEF Winners

7:02 PM 4/22/2021

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AICHe April Meeting - NEOSEF Wi... X

People (5) Chat

IN CALL

- Joe Yurko (You)
- Dylan Berr
- GARY P
- Joe Spagnuolo
- Mike Galgoczy

Turn on captions Present now

AICHe April Meeting - NEOSEF Winners

7:03 PM 4/22/2021