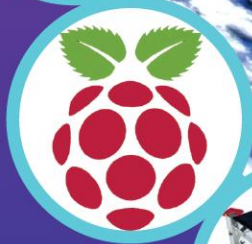




SWE & BWSI PRESENT:

BUILD A CUBESAT CHALLENGE

Interested in space or coding?
Would you like to build a prototype satellite?



Final Event Student Team Presentations and Awards Ceremony

WHEN: Saturday, May 29, 2022, 11:00am to 3:00pm EDT

WEBINAR: <https://web.mit.edu/webcast/beaverworks/s22/swe/>

CHALLENGE WEBSITE: https://beaverworks.ll.mit.edu/CMS/bw/SWE_BWSI_Challenge



Welcome to SWE-BWSI Build a CubeSat Challenge Final Event

Congratulations to all teams that have made it through the SWE-BWSI Challenge!

The CubeSat Challenge was not easy! It was full of many different smaller challenges that added up to a huge undertaking. I'm sure you had several head-scratching moments during the challenge that required innovation and collaboration to overcome. We are so glad you made it, and we hope you enjoyed the process!

Working as an engineer can be very similar to this challenge. There is a lot of team problem solving, hands-on building and testing, and certainly a lot of head-scratching moments! But those moments lead to amazing breakthroughs and innovative technologies, so they are well worth it.

We hope this challenge has pushed you to continue your engineering journey in college and throughout your career.

Best of luck with the final event, and I wish you success in all your future endeavors!

Yours truly,

On behalf of all the SWE-BWSI Build a CubeSat Challenge organizers,

Ellie Marois
VP of K-12 Outreach, FY19-FY22
Society of Women Engineers (SWE) Boston

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SWE-BWSI Build a CubeSat Challenge Teams

Astra

(Saratoga High School, Saratoga CA; Silver Creek High School, San Jose, CA)

Team members:

Samanvi Boppana
Sannidhi Boppana
Ameya Saund
Shreya Vora
Shruti Vora

Coaches:

Vamsi Boppana
Gurjeet Saund

Mentors:

Esther Wolf
Gary Friedman

Aveng-Hers

(California High School, San Ramon, CA; James Logan High School, Union City, CA)

Team members:

Sadhana Balasubramanian
Anya Garg
Callan Griffin
Nivashini Nattudurai
Unnati Seshadri
Prisha Sinha

Coach: Debasis Sinha

Mentor: Sid Gupta



Carmel SWENext

(Carmel High School, Carmel, IN)

Team members:

Geetika Chitturi
Lucca Mo
Sonakshi Sandu
Hannah Shin
Raghav Sriram

Coach: Lahiri Chitturi

Mentor: Suzy Wang

C - Force

(Lexington High School, Lexington, MA)

Team members:

Sydney Elliot
Audi Lin
Olivia McRedmond

Coach: Suzy Wang

Mentor: Keke Chen

CubeCats

(Gretchen Whitney High School, Cerritos, CA)

Team members:

Aahil Ali
Steven Cao
Swetha Chidambara Ganesh
Reema Dawar
Sabrina Wang

Coaches:

Robert Miller
Shannon Statham

Mentor: Gary Friedman



Lady Lion STEAMers

(Westminster High School, Westminster, CA)

Team members:

Nghi Do
Rachel Fernandez
Quynh Ngo
Emily Nguyen
Vickie Nguyen
Allena Tran

Coach: Huy Pham

Mentor: Alyssa Rose

Lagrange Points

(New Technology High School, Napa, CA)

Team members:

Yvonne Apolinar
Laura Camacho
Bella Dunmyer
Jack Steffensen
Alison Watson

Coach: Angelene Warnock

Mentor: Eileen Duong

Narvi

(American High School, Fremont CA)

Team members:

Meryl Mathew
Navya Seth
Harshini Srinath
Garima Upadhyay
Nandana Venkitesh

Coaches:

John Shockley
Kyra Wheaton

Mentor: Sid Gupta



The Midnight Mechanics

(The Preuss School - University of California San Diego, San Diego, CA)

Team members:

Karla Castaneda

Taylin Kieu

Daniela Navarrete

Nhu Nguyen

Angela Perez

Emily Phanthavilay

Judy Truong

Coach: Daniel Rupert

Mentor: Keke Chen



SWE-BWSI Build a CubeSat Challenge Awards

First Place Award

Carmel SWENext

(Carmel High School, Carmel, IN)

Second Place Award

Astra

(Saratoga High School, Saratoga CA; Silver Creek High School, San Jose, CA)

Third Place Award

Aveng-Hers

(California High School, San Ramon, CA; James Logan High School, Union City, CA)

Best Flight Spacecraft Design Award

CubeCats

(Gretchen Whitney High School, Cerritos, CA)

Best Presentation Award

Narvi

(American High School, Fremont CA)



SWE-BWSI Build a CubeSat Challenge (Spring 2022)

Advisors

Prof. Kerri Cahoy (MIT Department of Aeronautics and Astronautics)
Ellie Marois (SWE Boston)
Eli Niewood (MITRE)
Jenn Watson (MIT Lincoln Laboratory)

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Lisa Kelley (MIT Beaver Works Summer Institute Manager, MIT Lincoln Laboratory)
Joel Grimm (MIT Beaver Works Manager, MIT Lincoln Laboratory)
Scott VanBroekhoven (MIT Lincoln Laboratory)
Emily Gavrilenko (SWE Cal Poly San Luis Obispo)
Ellie Marois (SWE Boston)

Build a CubeSat Online Course Curriculum

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Prof. Sharan Asundi (Old Dominion University, Mechanical & Aerospace Engineering)
Prof. Kerri Cahoy (MIT Department of Aeronautics and Astronautics)

Online Course Coordinators

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Michael Houle (MIT Lincoln Laboratory)

IT Coordinator

John Bilodeau (MIT Lincoln Laboratory)

Publications

Rich Bushey (MIT Lincoln Laboratory)



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Kelsey Nguyen (SWE Cal Poly San Luis Obispo)
Scott VanBroekhoven (MIT Lincoln Laboratory)
Esther Wolf (MIT Lincoln Laboratory)

Judging Committee Members

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Gary Friedman (Veteran of NASA)
Thomas Sebastian (MIT Lincoln Laboratory)
Suzy Wang (MIT Lincoln Laboratory)
Esther Wolf (MIT Lincoln Laboratory)

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Peter Dentch (Worcester Polytechnic Institute)
Eileen Duong (SWE BU)
Gary Friedman (Veteran of NASA)
Sid Gupta (Cisco)
Divya Krishnagiri (SWE Boston)
Kelsey Nguyen (SWE Cal Poly San Luis Obispo)
Alyssa Rose (MITRE)
Suzy Wang (MIT Lincoln Laboratory)
Esther Wolf (MIT Lincoln Laboratory)



Guest Seminar Speakers

Richard Chen (MIT Lincoln Laboratory)

Andrew Dahir (MIT Lincoln Laboratory)

Mary Dahl (MIT Department of Aeronautics and Astronautics)

Gary Friedman (Veteran of NASA)

Jonathan (Brent) Parham (MIT Lincoln Laboratory)

Adam Shabshelowitz (MIT Lincoln Laboratory)

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SWENext is a way for young girls to become a part of the Society of Women Engineers (SWE) community before college. AND IT'S FREE!

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SCAN ME

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- Leadership Opportunities
- Networking with Engineering Professionals
- STEM-Involved Friends
- SWENext Clubs
- ... and much more.

WHO CAN BE A SWENEXTER?

Any girl 13 or older may join SWENext. For those younger than 13, a parent will need to be the primary contact. We also encourage parents to join regardless of the age of their child.

Already a part of another STEM organization? No worries, you can still join SWENext!

Connect with us on social media!

