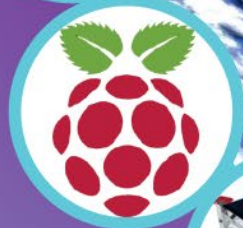




NSBE & BWSI PRESENT:

# 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 14, 2022, 11:30am to 2:30pm EDT

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

**CHALLENGE WEBSITE:** [https://beaverworks.ll.mit.edu/CMS/bw/NSBE\\_BWSI\\_Challenge](https://beaverworks.ll.mit.edu/CMS/bw/NSBE_BWSI_Challenge)





## Welcome to NSBE-BWSI Build a CubeSat Challenge Final Event

**Future aerospace industry engineers, innovators and leaders,**

Thank you for embarking on this journey to expand your knowledge of satellite technology, applications, and missions as a part of the NSBE - BWSI Build a CubeSat Challenge.

We are proud each one of you decided to stretch your technical capabilities as this is an essential step to nurturing your technical foundation for a future in aerospace. Whether your team 🧑‍🤖 won or not, each one of you is positioned to excel as a future STEM professional with this challenge.

**We appreciate your dedication and look forward to today's program to celebrate both our collective efforts and challenge winner.** Good work and remain connected with NSBE and MIT BWSI for additional opportunities to grow technically.

Now let's jump into this final event and see how we achieved our missions 🚀! Way to GO..... 🏆

On behalf of NSBE-BWSI Build a CubeSat Challenge organizers.

Enanga Daisy Fale  
Director, NSBE Aerospace SIG  
aerospace.director@nsbe.org  
[www.nsbe-aerospace.org](http://www.nsbe-aerospace.org)



## **NSBE-BWSI Build a CubeSat Challenge Teams**

### **Astra Navis**

(Brooklyn Technical High School, Brooklyn, NY)

Team members:

Nur Ashsams  
Haojing Huang  
Stephan McGlashan  
Ethan Ponce  
Cristian Tavarez  
John Li  
Ivy Manglicmot

Coaches:

Kecia O'Neal  
Ali Harb

Mentor: Gael Gatera

### **Evanston "Space or Bust" Wildkits**

(Evanston Township High School, Evanston, IL)

Team members:

Rohil Bose  
William Comess  
Meris Goldfarb  
Connor McGuire  
Luca Zerega

Coach: Mark Vondracek

Mentor: Oluwaseun A. Adekoya



### **GSSM Eagles**

(South Carolina Governor's School for Science & Mathematics, Hartsville, SC)

Team members:

Ivan Chen  
Steven Insignares  
John Jones  
Om Patel  
Ava Perkins

Coaches:

Joshua Witten  
Antonino Carnevali  
Grayson Gibson

Mentor: Jamaraya Richardson

### **LEOnidas**

(Belmont High School, Belmont, MA)

Team members:

Peter Becker  
Krikor Hachikian  
Julian Halpern-Smith  
Nari Kang  
Declan Mckinley

Coach: Fred Halpern-Smith

Mentor: Oluwaseun A. Adekoya

### **TurtleBox**

(Torrance High School, Torrance, CA; South High School, Torrance, CA; CAMS, Carson, CA)

Team members:

Taeyoung Chun  
Jonathan Lee  
Joseph Lee  
Junhyeok Park  
Heesung Yang

Coach: Meyoung Chun

Mentor: Sarah Gomez



## **NSBE-BWSI Build a CubeSat Challenge Awards**

### **First Place Award**

#### **TurtleBox**

(Torrance High School, Torrance, CA; South High School, Torrance, CA; CAMS, Carson, CA)

### **Second Place Award**

#### **Evanston "Space or Bust" Wildkits**

(Evanston Township High School, Evanston, IL)

### **Third Place Award**

#### **Astra Navis**

(Brooklyn Technical High School, Brooklyn, NY)

### **Best Innovation Award**

#### **GSSM Eagles**

(South Carolina Governor's School for Science & Mathematics, Hartsville, SC)

### **Best Up and Coming Team Award**

#### **LEOnidas**

(Belmont High School, Belmont, MA)



## **NSBE-BWSI Build a CubeSat Challenge (Spring 2022)**

### **Advisors**

Prof. Kerri Cahoy (MIT Department of Aeronautics and Astronautics)  
Enanga Daisy Fale (NSBE Aerospace SIG)  
Eli Niewood (MITRE)  
Marc Viera (MIT Lincoln Laboratory)

### **Staff**

#### **Program Coordinators**

Robert (Bob) Shin (MIT Beaver Works Director, MIT Lincoln Laboratory)  
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)  
Gael Gatera (NSBE Aerospace SIG)  
Jacqueline Long (NSBE Aerospace SIG)

#### **Build a CubeSat Online Course Curriculum**

Rebecca Keenan (MIT Lincoln Laboratory) - Lead  
Prof. Sharan Asundi (Old Dominion University, Mechanical & Aerospace Engineering)  
Prof. Kerri Cahoy (MIT Department of Aeronautics and Astronautics)

#### **Online Course Coordinators**

Julie Mullen (MIT Lincoln Laboratory)  
Michael Houle (MIT Lincoln Laboratory)

#### **IT Coordinator**

John Bilodeau (MIT Lincoln Laboratory)

#### **Publications**

Rich Bushey (MIT Lincoln Laboratory)



## **MIT Video Productions Virtual Event Production**

Clayton Hainsworth, Director  
Rod Lindheim, Production Manager  
Kevin Tierney, Streaming Manager  
Barry Pugatch, Technical Director  
Alex Sachs, Editor  
Donna DeAngelis, Producer  
Dawn Morton, Client Services Manager

## **Team Selection Committee Members**

Gael Gatera (NSBE Aerospace SIG)  
Sarah Gomez (Parsons Corporation)  
Rebecca Keenan (MIT Lincoln Laboratory)  
Scott VanBroekhoven (MIT Lincoln Laboratory)

## **Judging Committee Members**

Ronald Ankler (MIT Lincoln Laboratory)  
Gael Gatera (NSBE Aerospace SIG)  
Sarah Gomez (Parsons Corporation)

## **Technical Mentors**

Oluwaseun Adekoya (NSBE Cincinnati Professionals)  
Ronald Ankner (MIT Lincoln Laboratory)  
Phillip Daniel (MIT Lincoln Laboratory)  
Gael Gatera (NSBE Aerospace SIG)  
Sarah Gomez (Parsons Corporation)  
Jamil Grant (NSBE Aerospace SIG)  
Michael McPherson (Embry-Riddle University)  
Jamarya Richardson (Embry Riddle University NSBE)



## 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 Shabselowitz (MIT Lincoln Laboratory)





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# MIT Beaver Works Summer Institute



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