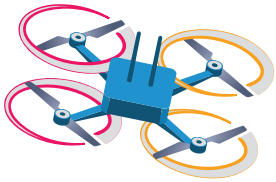
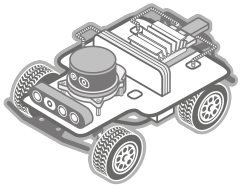


BEAVER WORKS
Lincoln Laboratory | School of Engineering

MIT Beaver Works Summer Institute

Fall 2024 Outreach Program – 7 Courses



Girls Who Program Autonomous Cars

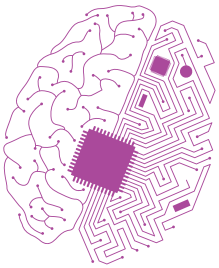
Girls Who Program Cognitive Assistants

Girls Who Want to Learn Many Interesting Things

Girls Who Design, Build and Fly Model Aircraft

Girls Who Want to Learn the Basics of ASICS

Girls Who Program Racing Drones



Girls Who Learn Python

No Prior Experience Required!

WHO: High School 10th and 11th Grade Female Students *

WHEN: Saturdays 11am–2pm (EST) – October 12, 19, 26, November 2, 9, 16, 23, December 7 2024

WHERE: Virtually, through Zoom!

REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_fall_2024

Application Deadline: October 1, 2024

* While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.

LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Defense
DoDSTEM
Science · Technology · Engineering · Mathematics

DRAPER

Patrick J McGovern
FOUNDATION

MITRE

School of Engineering

This material is based upon work supported by the United States Air Force under Air Force Contract No. FA8702-15-D-0001. Any opinions, findings, conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the United States Air Force.

BEAVER WORKS
Lincoln Laboratory | School of Engineering

Girls Who Program Autonomous Cars

A BWSI Mini-RACECAR Crash Course

A BWSI Mini-RACECAR Crash course

No Hardware Required!

No Cost!

Learn to code Python!

No Prior Experience Required!

Application Deadline:
October 1, 2024

Who: Female High School Students (10th and 11th grade) interested learning about coding and robotics! Beginners encouraged!

When: Saturdays 11am – 2pm (EST) – October 12, 19, 26, November 2, 9, 16, 23, December 7 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall_2024

While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.

LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Defense DoDSTEM
Science · Technology · Engineering · Mathematics

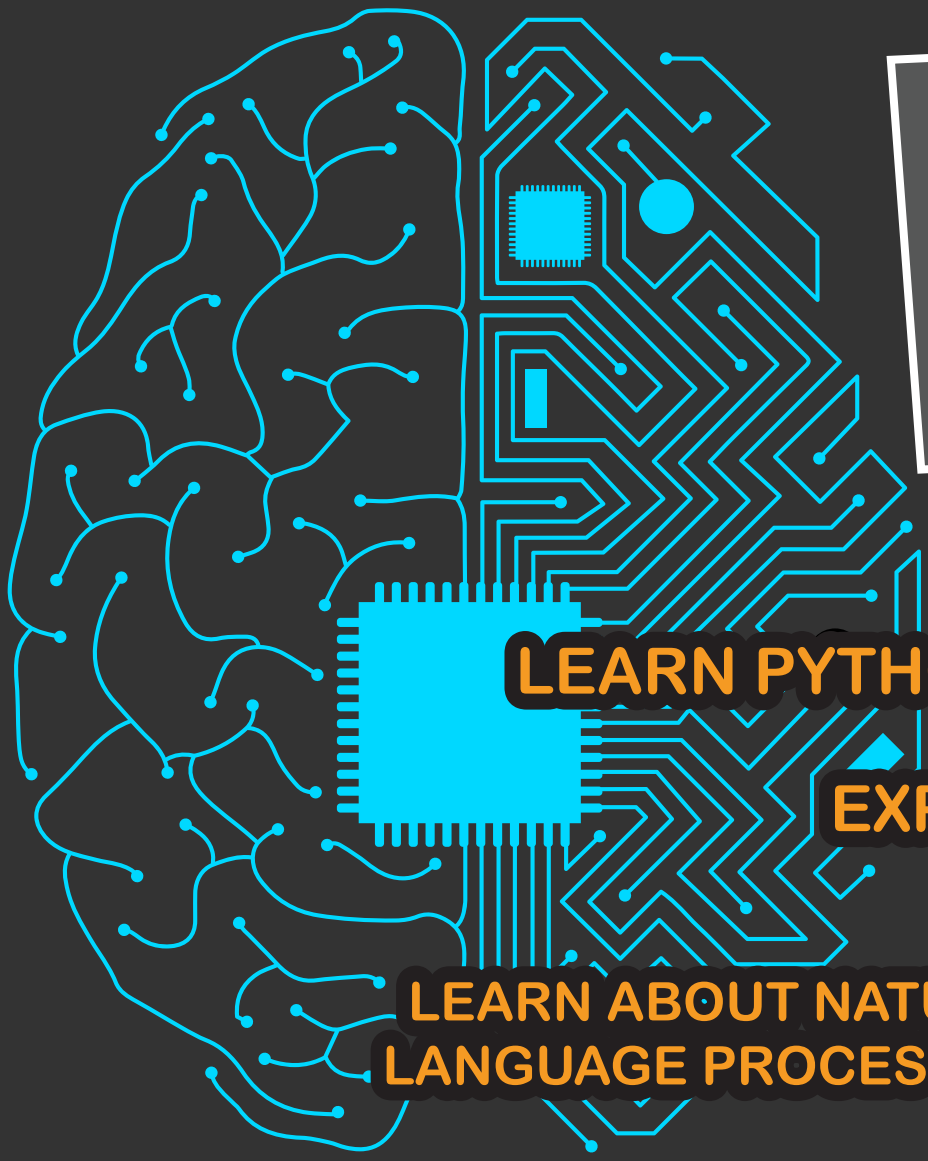
DRAPER

Patrick J McGovern FOUNDATION

School of Engineering

BEAVER WORKS
Lincoln Laboratory | School of Engineering

Girls who program cognitive assistants! — a BWSI crash course



An introduction to Artificial Intelligence through building an autonomous cognitive assistant!

LEARN PYTHON!

EXPLORE MACHINE LEARNING!

LEARN ABOUT NATURAL LANGUAGE PROCESSING!

No Prior Experience Required!

Who: Female High School Students (10th and 11th grade) interested in learning about code and artificial intelligence! Beginners Encouraged!

When: Saturdays 11am – 2pm (EST) – October 12, 19, 26, November 2, 9, 16, 23, December 7, 9 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall_2024

Application Deadline: October 1, 2024

While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.

LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Defense
DoDSTEM
Science · Technology · Engineering · Mathematics

Patrick J McGovern
FOUNDATION

School of Engineering

BEAVER WORKS
Lincoln Laboratory | School of Engineering

Many Interesting Things:

For Aspiring Engineers
From Transistors to Data Science

A BWSI Medlytics intro course

An early introduction to the technologies that shape our world, with applications to medical data analytics!

Python • Computer Architecture • Machine Learning
Computer Vision • Linux • The Internet

No prerequisites.
No pressure.

No Prior Experience Required!

Application Deadline:
October 1, 2024

WHO: Female High School Students (10th and 11th grade) interested learning about computers, coding and medical data analytics. Beginners Encouraged!

WHEN: Saturdays 11am – 2pm (EST) – October 12, 19, 26, November 2, 9, 16, 23, December 7 2024

WHERE: Virtually, through Zoom!

REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_fall_2024

While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.

LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Defense
DoDSTEM
Science · Technology · Engineering · Mathematics

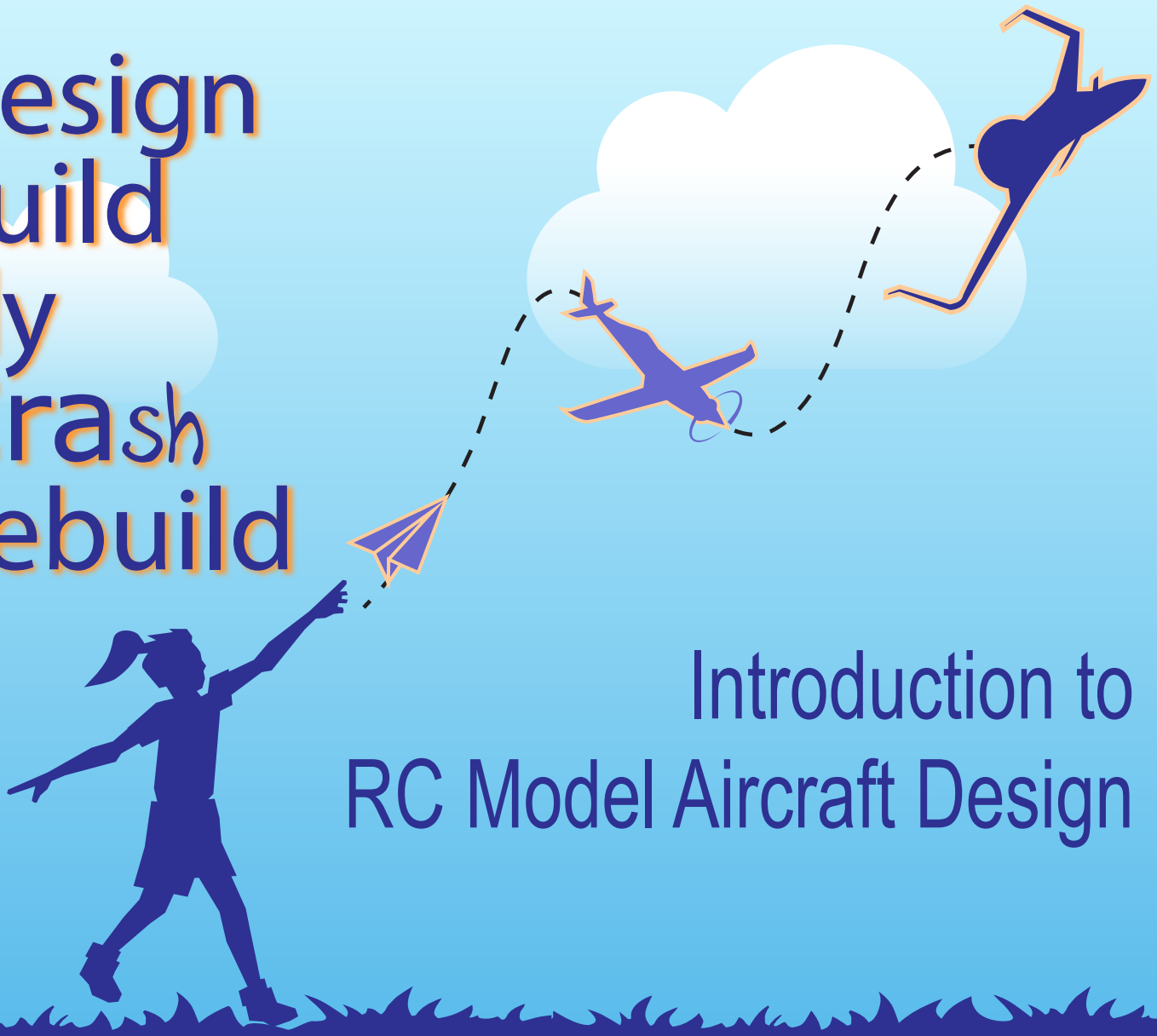
Patrick J McGovern
FOUNDATION

School of Engineering

BEAVER WORKS
Lincoln Laboratory | School of Engineering

Girls Who Design, Build and Fly Model Aircraft — A BWSI Crash Course.

Design
Build
Fly
Crash
Rebuild



Introduction to RC Model Aircraft Design

No Prior Experience Required!

Application Deadline:
October 1, 2024

Who: Female High School Students (10th and 11th grade) interested in Aerospace and Aeronautics.

When: Saturdays 11am – 2pm (EST) – October 12, 19, 26, November 2, 9, 16, 23, December 7, 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall_2024

While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.

LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

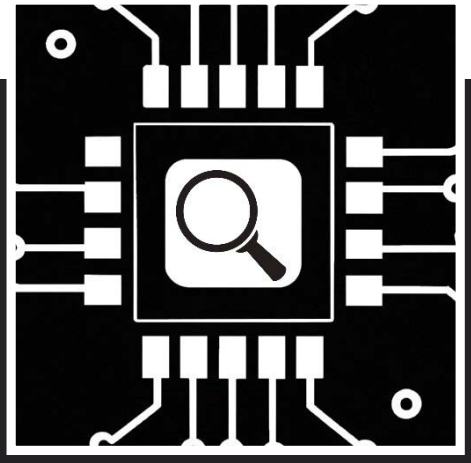
Department of Defense DoDSTEM
Science · Technology · Engineering · Mathematics

Patrick J McGovern FOUNDATION

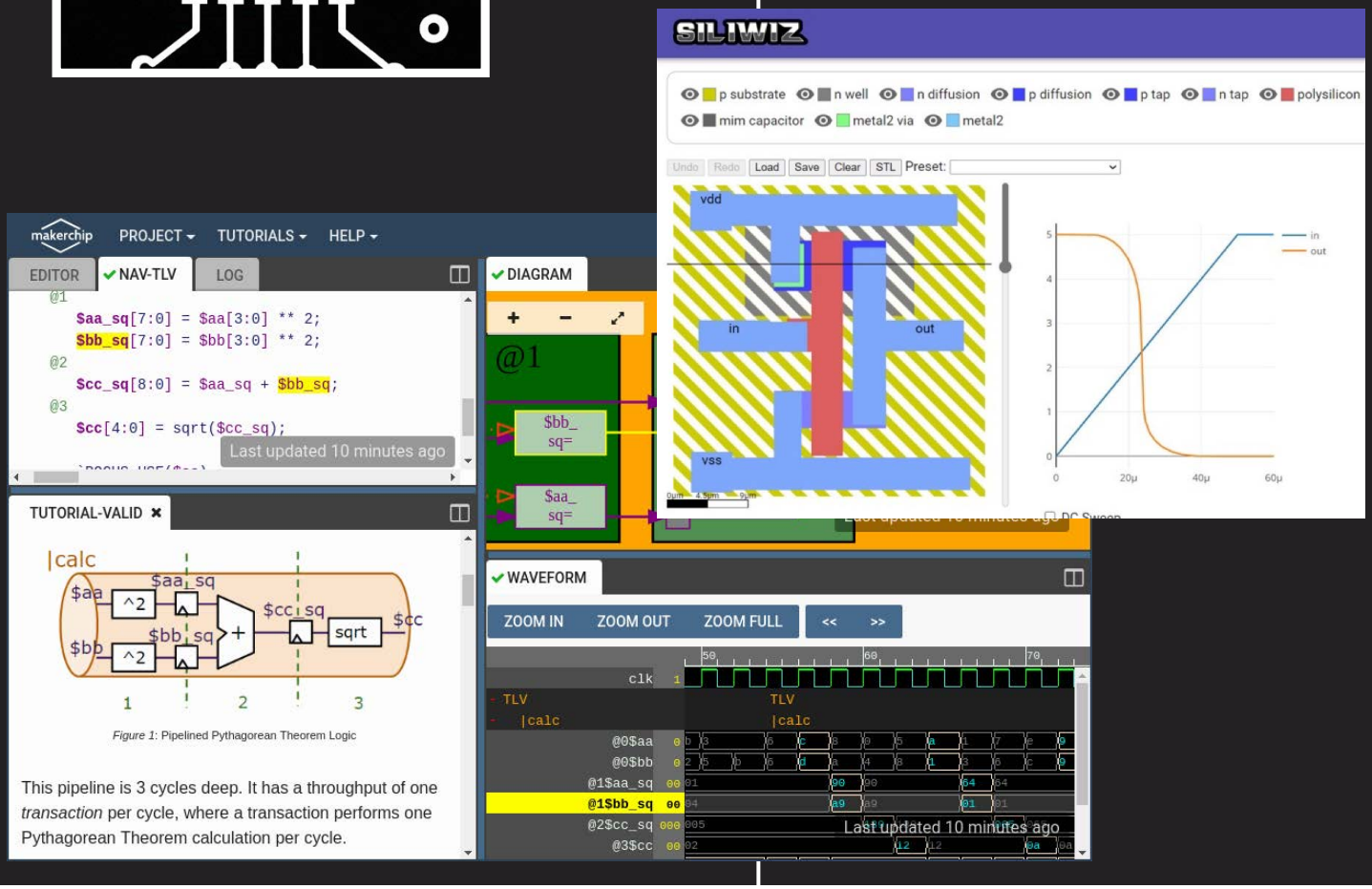
School of Engineering

BEAVER WORKS
Lincoln Laboratory | School of Engineering

Girls Who Want to Learn the Basics of ASICs



This course will explore topics on open source semiconductor design and fabrication. Students will receive hands-on experience on how to design and arrange semiconductors on a nanometer scale to perform a specific function.



No Prior Experience Required!

Application Deadline:
October 1, 2024

Who: Female High School Students (10th and 11th grade) interested in learning about semiconductor design and fabrication! Beginners encouraged!

When: Saturdays 11am – 2pm (EST) – October 12, 19, 26, November 2, 9, 16, 23, December 7, 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall_2024

While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.

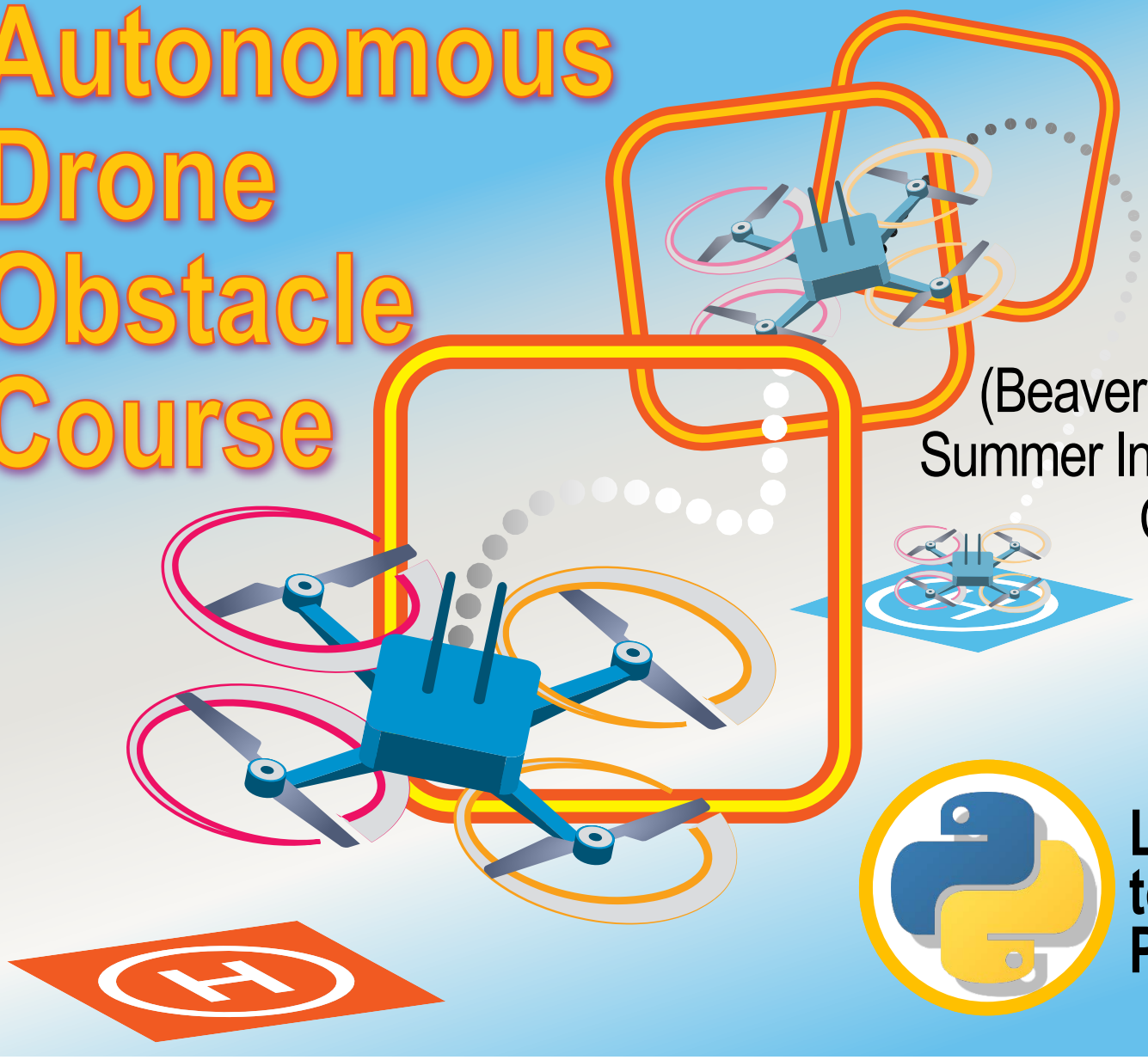
LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Department of Defense DoDSTEM Science · Technology · Engineering · Mathematics
Patrick J McGovern FOUNDATION
MITRE
School of Engineering

BEAVER WORKS
Lincoln Laboratory | School of Engineering

Girls Who Program Racing Drones

Beaver Warrior

Autonomous Drone Obstacle Course



A BWSI (Beaver Works Summer Institute) Course

Learn to Code Python

No Prior Experience Required!

Application Deadline:
October 1, 2024

Who: Female High School Students (10th and 11th grade) interested in Aerospace and Aeronautics.

When: Saturdays 11am – 2pm (EST) – October 12, 19, 26, November 2, 9, 16, 23, December 7 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall_2024

While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.

LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Defense DoDSTEM
Science · Technology · Engineering · Mathematics

Patrick J McGovern FOUNDATION

School of Engineering

BEAVER WORKS
Lincoln Laboratory | School of Engineering

GIRLS WHO LEARN PYTHON

Learn Python!

Learn to think like a programmer!

No prerequisites, no pressure!

No Prior Experience Required!

Who: Female High School Students (10th and 11th grade) interested learning about coding. Beginners encouraged!

When: Saturdays 10am-11am (EST)
October 12, 19, 26, November 2, 9, 16, 23, December 7 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall_2024

Application Deadline: October 1, 2024

While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.

LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Defense
DoDSTEM
Science · Technology · Engineering · Mathematics

Patrick J McGovern
FOUNDATION

School of Engineering