

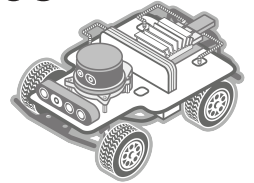
BEAVER WORKS
Lincoln Laboratory | School of Engineering



MIT Beaver Works Summer Institute

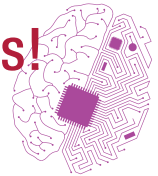
Spring 2024 Outreach Program – 6 Courses

Yes! You Can Program Autonomous Cars



Yes! You Can Design, Build and Fly Model Aircraft

Yes! You Can Program Cognitive Assistants! Yes!



You Can Program Racing Drones!

Many Interesting Things for Aspiring Engineers!

Yes! You Can Learn Practical Radio**



No Prior Experience Required!

- WHO:** High School Students (9th and 10th grade)
- WHEN:** Saturdays 11am-2pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024*
- WHERE:** Virtually, through Zoom! (except for the in-person Practical Radio)
- REGISTER:** https://mit-bwsi.formstack.com/forms/bwsi_spring_2024

. ** Practical Radio is in-person at MIT campus Saturdays 11am – 3pm (EST).

 **LINCOLN LABORATORY**
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Defense
DoDSTEM
Science · Technology · Engineering · Mathematics

MITRE



Patrick J McGovern
FOUNDATION



School of Engineering



YES! YOU CAN PROGRAM AUTONOMOUS CARS

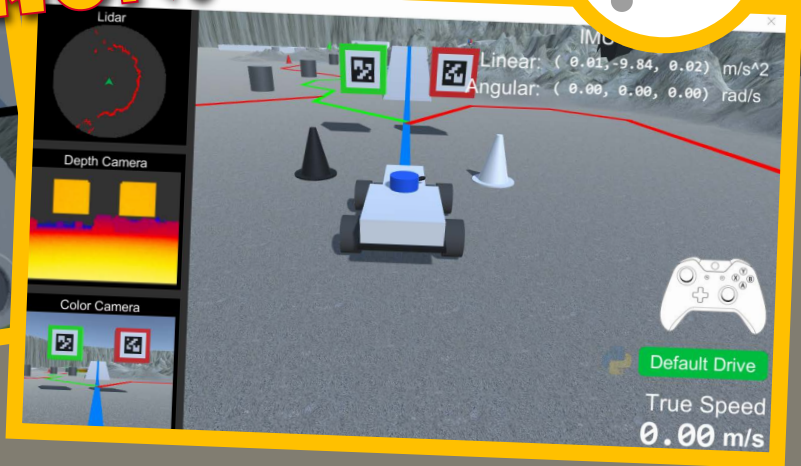
NO HARDWARE REQUIRED!

A BWSI MINI-RACECAR CRASH COURSE

NO COST!



LEARN TO CODE PYTHON!



NO PRIOR EXPERIENCE REQUIRED!

Who: High School Students (9th and 10th grade) interested learning about coding and robotics! Beginners encouraged!

When: Asynchronous course with instructor office hours & required meetings on Saturdays from 11am-2pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: Online Edly platform through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024





Yes! You Can Design, Build and Fly Model Aircraft!



**Design
Build
Fly
Crash
Rebuild**



**A
BWSI
(Beaver Works
Summer Institute)
Course**

Introduction to RC Model Aircraft Design

**No Prior
Experience
Required!**

Who: High School Students (9th and 10th grade) interested in Aerospace and Aeronautics.

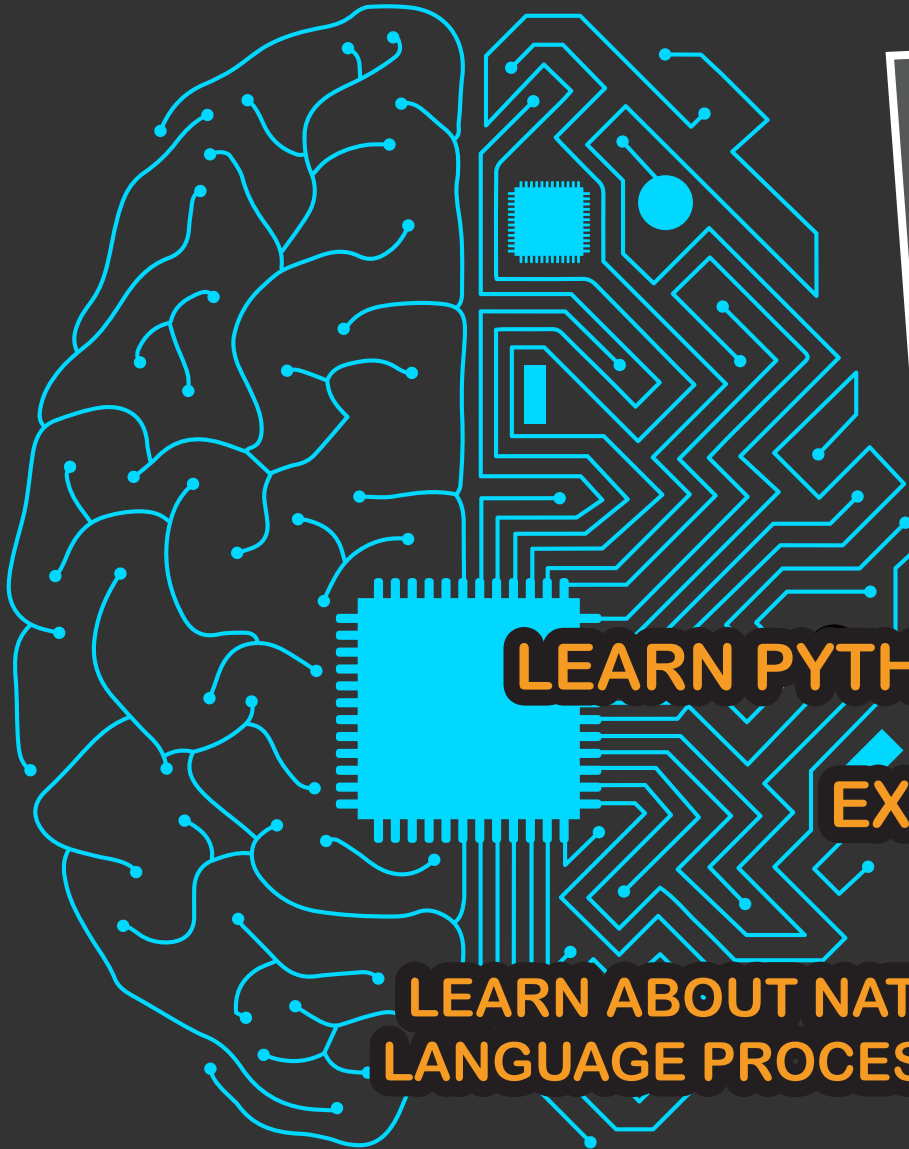
When: Saturdays 11am-2pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024



Yes! You Can 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: High School Students (9th and 10th grade) interested in learning about code and artificial intelligence! Beginners Encouraged!

When: Saturdays 11am-2pm (EST)-March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: Virtually, through Zoom!

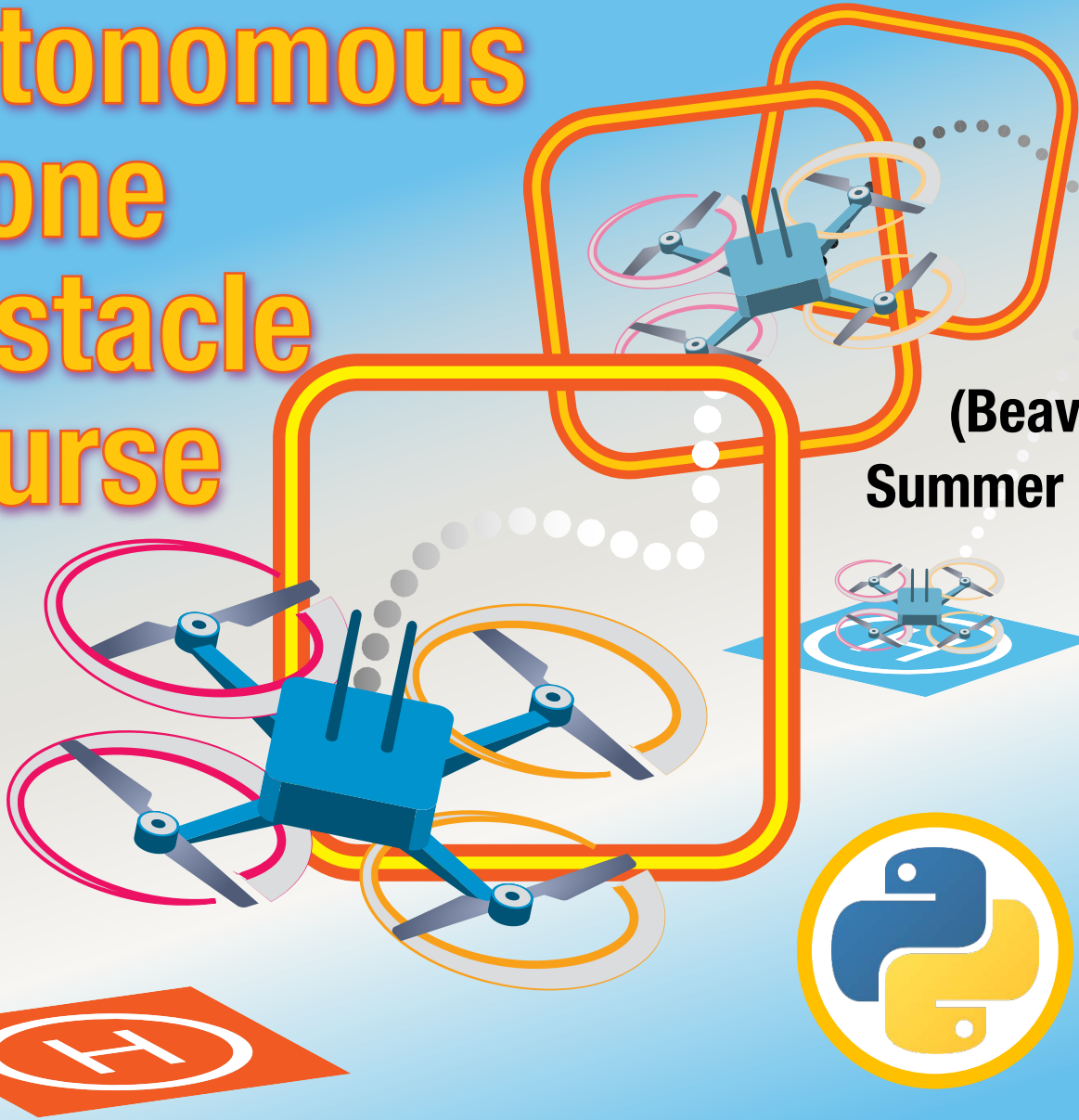
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Yes! You Can Program Racing Drones

Beaver Warrior

Autonomous Drone Obstacle Course



A
BWSI
(Beaver Works
Summer Institute)
Course



Learn
to Code
Python

No Prior Experience Required!

Who: High School Students (9th and 10th grade) interested in Aerospace and Aeronautics.

When: Saturdays from 11am-2pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsf.formstack.com/forms/bwsf_spring_2024





Many Interesting Things:

For Aspiring Engineers
From Transistors to Data Science

A BWSI Medlytics intro course by Christian Cardozo

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!**

WHO: High School Students (9th and 10th grade) interested in learning about computers, coding and medical data analytics. Beginners Encouraged!

WHEN: Saturdays 11am-2pm (EST)-March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

WHERE: Virtually, through Zoom!

REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024





No Prior Experience Required!

Who: High School Students (9th and 10th grade) interested in Ham Radio Technology.

When: Saturdays 11am-3pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: In-person at MIT campus!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024

