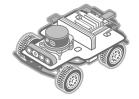


MIT Beaver Works Summer Institute

Fall 2023 Outreach Program – 6 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



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

WHEN: Saturdays 11am–2pm (EST) – October 14, 21, 28,

November 4, 11, 18, December 2, 9 2023

WHERE: Virtually, through Zoom!

REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_fall2023

















GIRLS WHO PROGRAM AUTONOMOUS CARS



No Prior Experience Required!

Who: Female High School Students (10th and 11th grade) interested

learning about <u>coding</u> and <u>robotics</u>! Beginners encouraged!

When: Saturdays 11am-2pm (EST) - October 14, 21, 28,

November 4, 11, 18, December 2, 9 2023

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2023





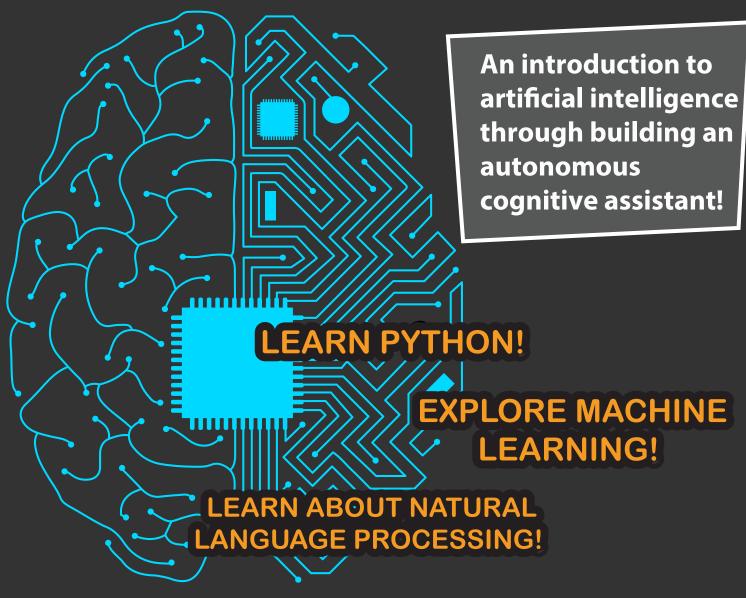








Girls who program cognitive assistants! — a BWSI crash course



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 14, 21, 28, November 4, 11, 18, December 2, 9 2023

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi fall2023











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:

Female High School Students (10th and 11th grade) interested learning about computers, coding and

medical data analytics. Beginners Encouraged!

WHEN: Saturdays 10am-1pm (EST) – October 14, 21, 28,

November 4, 11, 18, December 2, 9 2023

WHERE: Virtually, through Zoom!

REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_fall2023











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



Introduction to RC Model Aircraft Design

No Prior Experience Required!

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

Aerospace and Aeronautics.

When: Saturdays 11am-2pm (EST) – October 14, 21, 28,

November 4, 11, 18, December 2, 9 2023

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2023





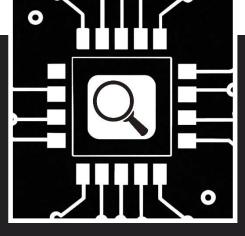






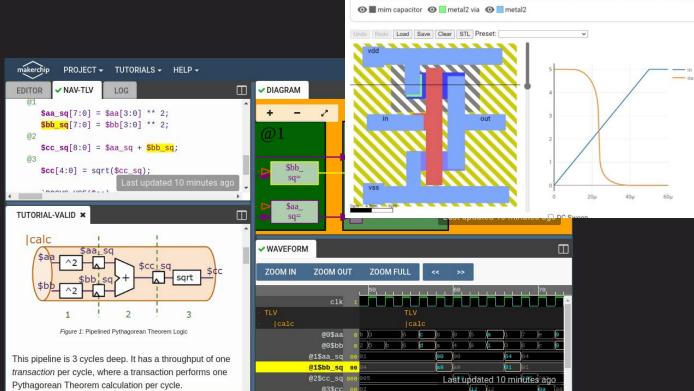
Girls Who Want to Learn the Basics of ASICs

SILIWIZ



Semiconductors and Application Specific Integrated Circuits (ASICs) are everywhere. In this course students will learn about semiconductors and get hands-on experience on how to design and arrange them to perform a specific function.

p substrate n well n diffusion p diffusion p tap n tap n tap polysilicon



No Prior Experience

REQUIRED!

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 14, 21, 28,

November 4, 11, 18, December 2, 9 2023

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2023











Girls Who Program Racing Drones Beaver Warrior



No Prior Experience Required!

Who: Female High School Students (10th and 11th grade)

interested in Aerospace and Aeronautics.

When: Saturdays 11am–2pm (EST) – October 14, 21, 28,

November 4, 11, 18, December 2, 9 2023

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2023







