



# Lead America + Helicopters

Andrew Barry

Ph.D. Candidate in Computer Science



Today you will:

Today you will:

- ▶ Learn to fly micro-helicopters

Today you will:

- ▶ Learn to fly micro-helicopters
- ▶ Build a circuit to control the helicopters

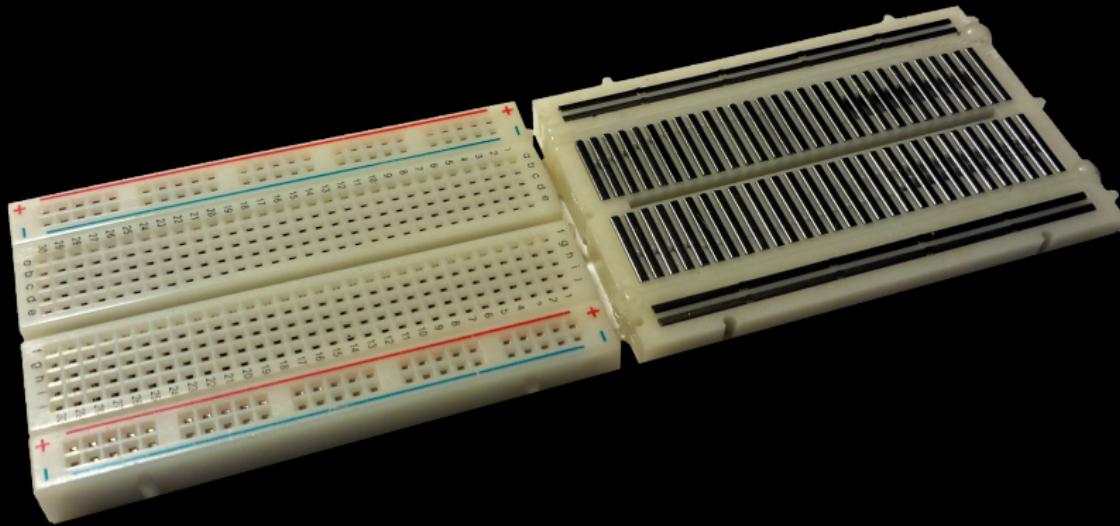
Today you will:

- ▶ Learn to fly micro-helicopters
- ▶ Build a circuit to control the helicopters
- ▶ Program autonomous flight maneuvers

A few things before we start...

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You'll build your circuit on a breadboard:



Who we are

Brandon

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Undergraduate at MIT studying computer science and electrical engineering.

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**Translation:** Brandon will simultaneously:

1. beat you at Starcraft

# Brandon

Undergraduate at MIT studying computer science and electrical engineering.

**Translation:** Brandon will simultaneously:

1. beat you at Starcraft
2. debug your circuit

# Brandon

Undergraduate at MIT studying computer science and electrical engineering.

**Translation:** Brandon will simultaneously:

1. beat you at Starcraft
2. debug your circuit
3. all while also stepping out for a snack at 7-Eleven

# Evan

Runs a social network analysis company called Proximate (tells event organizers who's meeting each other at their events).

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**He can talk your ear off about:**

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1. web software development

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**He can talk your ear off about:**

1. web software development
2. typography

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## **He can talk your ear off about:**

1. web software development
2. typography
3. food

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## **He can talk your ear off about:**

1. web software development
2. typography
3. food
4. space

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1. web software development
2. typography
3. food
4. space
5. maps

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## **He can talk your ear off about:**

1. web software development
2. typography
3. food
4. space
5. maps
6. Wolfram Alpha

Izzy

Currently pursuing his masters at MIT in Mechanical Engineering,  
studying the fluid characteristics of flapping flight.

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studying the fluid characteristics of flapping flight.

**Translation:**

Izzy

Currently pursuing his masters at MIT in Mechanical Engineering, studying the fluid characteristics of flapping flight.

**Translation:**

1. runs unbelievably complex fluid simulations

Izzy

Currently pursuing his masters at MIT in Mechanical Engineering, studying the fluid characteristics of flapping flight.

**Translation:**

1. runs unbelievably complex fluid simulations
2. retrofitting a swimming-pool sized experimental while he waits

Harold

Harold



Harold



Harold



Harold

60,000 watt RF coupler  
(part of Harold's research)

Harold



Harold

