



#ILookLikeAnEngineer

Breaking the Mold



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ROSE-BUD

Metea High School
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The Nerdy Engineer

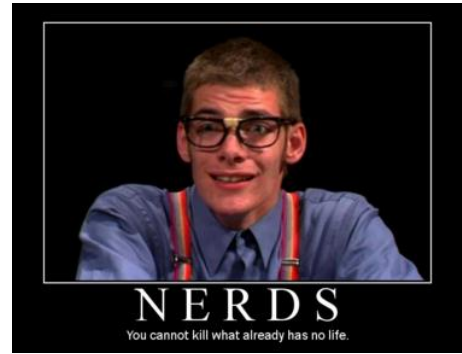
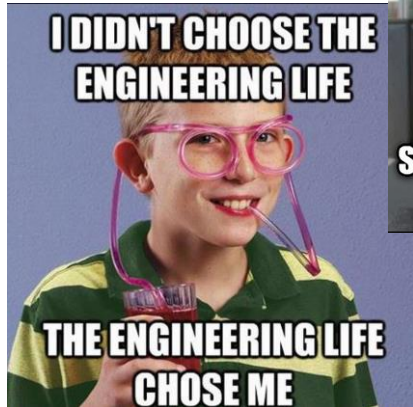


You know you're in the wrong class when more than 3 students are female, and they're all hot.



I SAT NEXT TO A GIRL IN CLASS TODAY

-An engineering student



#ILookLikeAnEngineer





Dedication and Vision

“If you accept the expectation of others, especially the negative ones, then you will never *change the outcome*”

-Maya Angelou



Make Your Purpose Your Passion

“A person is the product of their *dreams*. So make sure to *dream* great *dreams*. And then try to live your *dream*.”

-Maya Angelou





ROSE-BUD: Rose Building Undergraduate Diversity

“What you're supposed to do when you don't like a thing is change it. If you can't change it, change the way you think about it. Don't complain.”

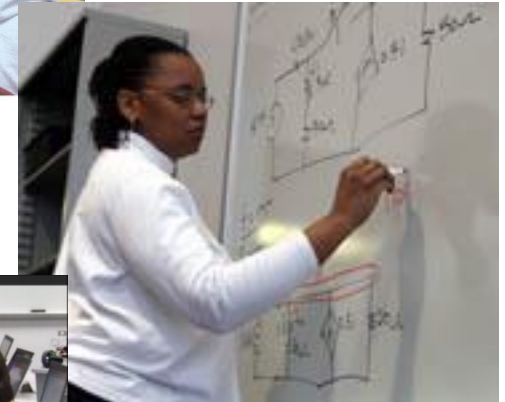
-Maya Angelou



Educator & Mentor

“You can only become truly accomplished at something you love. Don't make money your goal. Instead, pursue the things you love doing, and do them so well that people can't take their eyes off you. All the other tangible rewards will come as a result.”

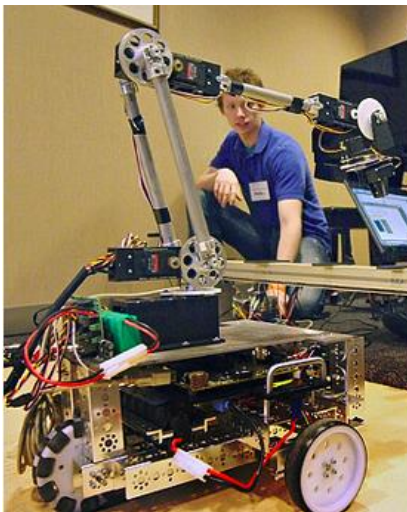
-Maya Angelou



Robotics Education



To whom much is given, much is required



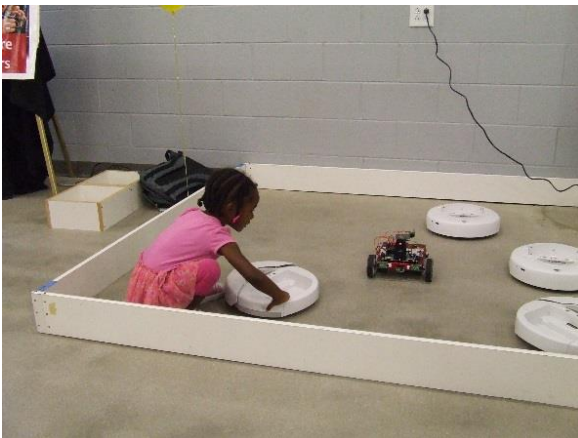
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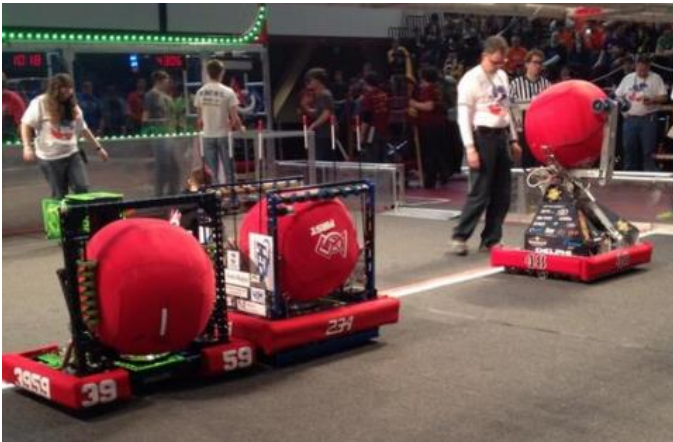
Robotics Service

“Almost always, the creative **dedicated** minority has made the world better.”

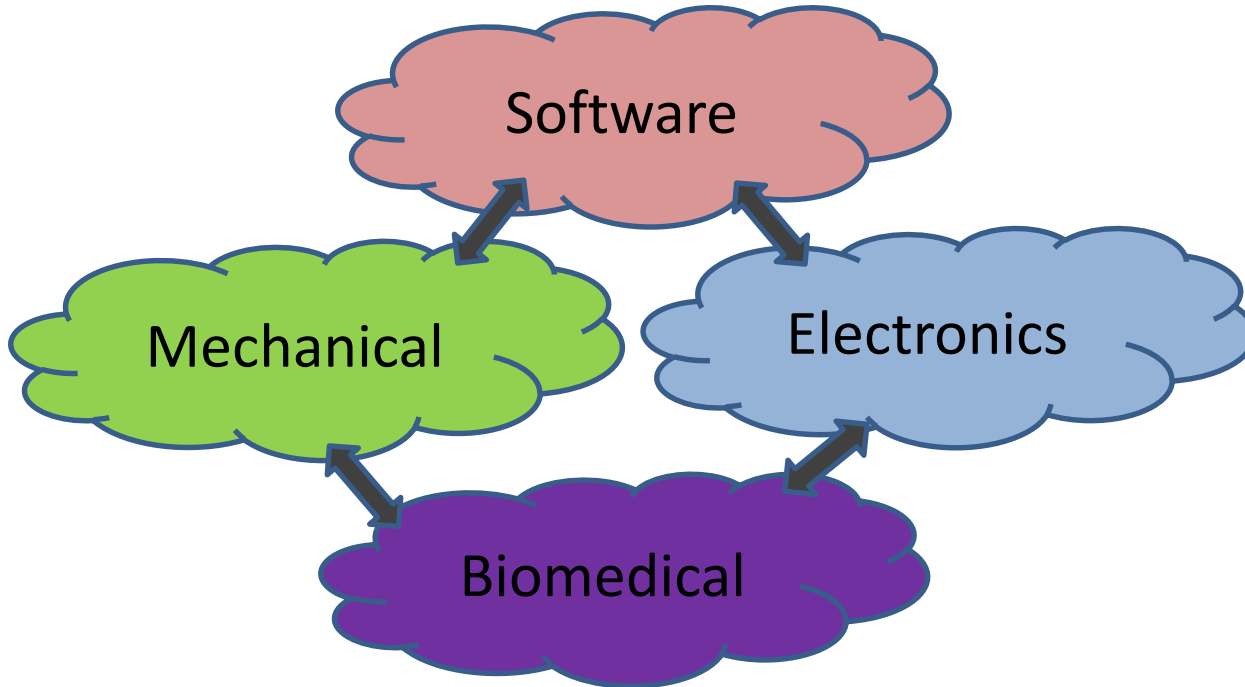
-Martin Luther King Jr.



FIRST Robotics



Multidisciplinary Robotics



What is a Robot?

Autonomous

Perception

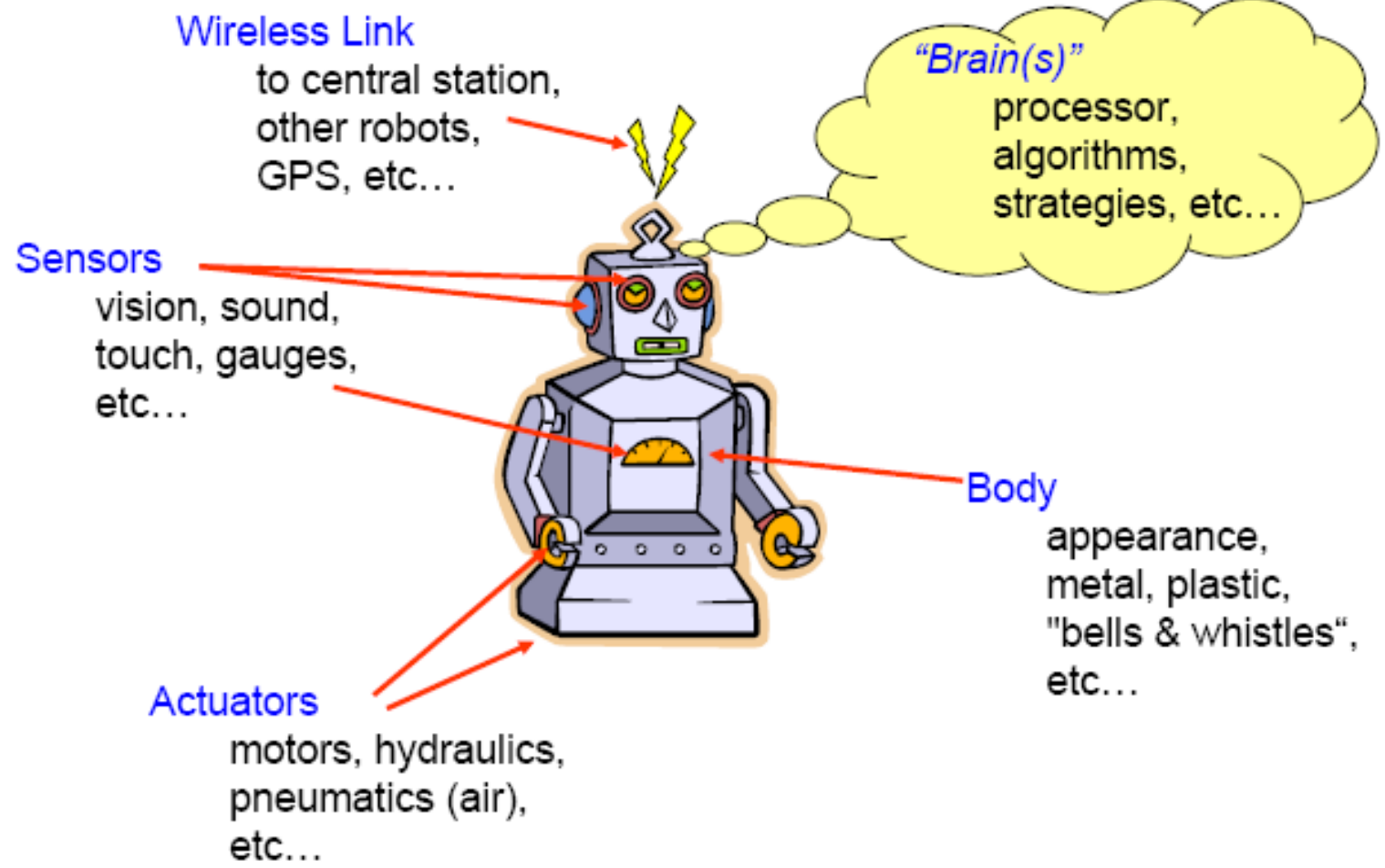
Embodiment

Acting

Goal/Task



Robot Components

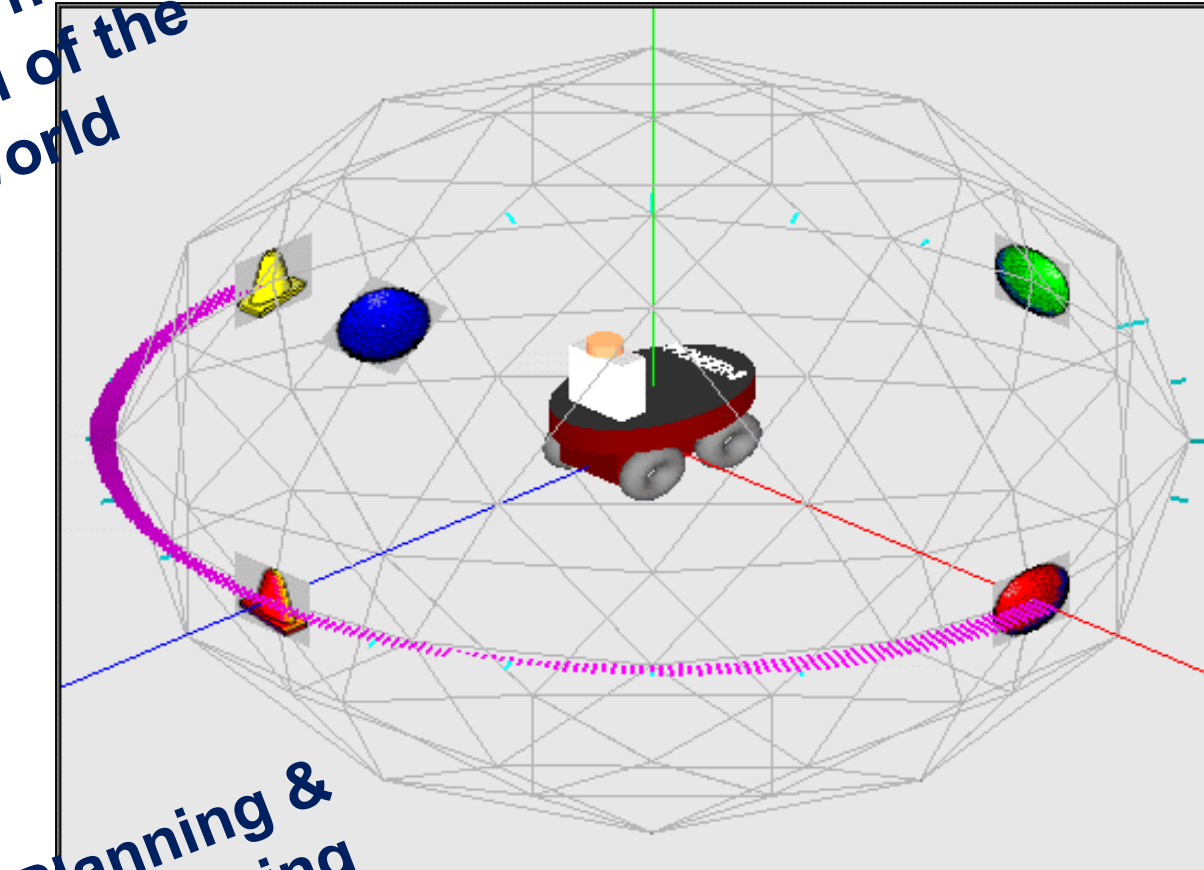


Artificial Intelligence (AI)

Search

Internal
model of the
world

Problem
Solving



Planning &
Reasoning

Knowledge
Representati
on

Robotics Control Spectrum

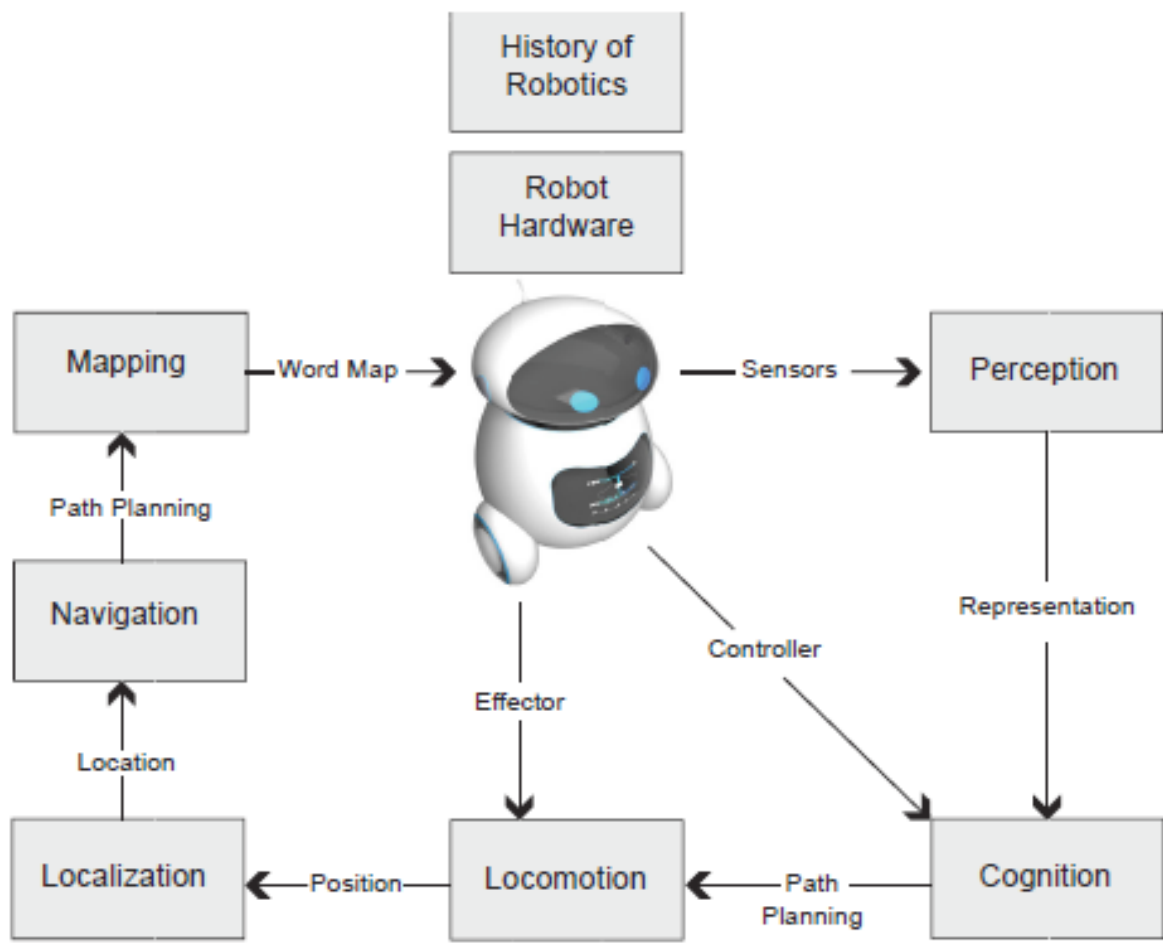


Figure 1.2: Mobile robotics cycle.



Freshman Design

Lego and Arduino Robots

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Mobile Robotics

HRI Concepts

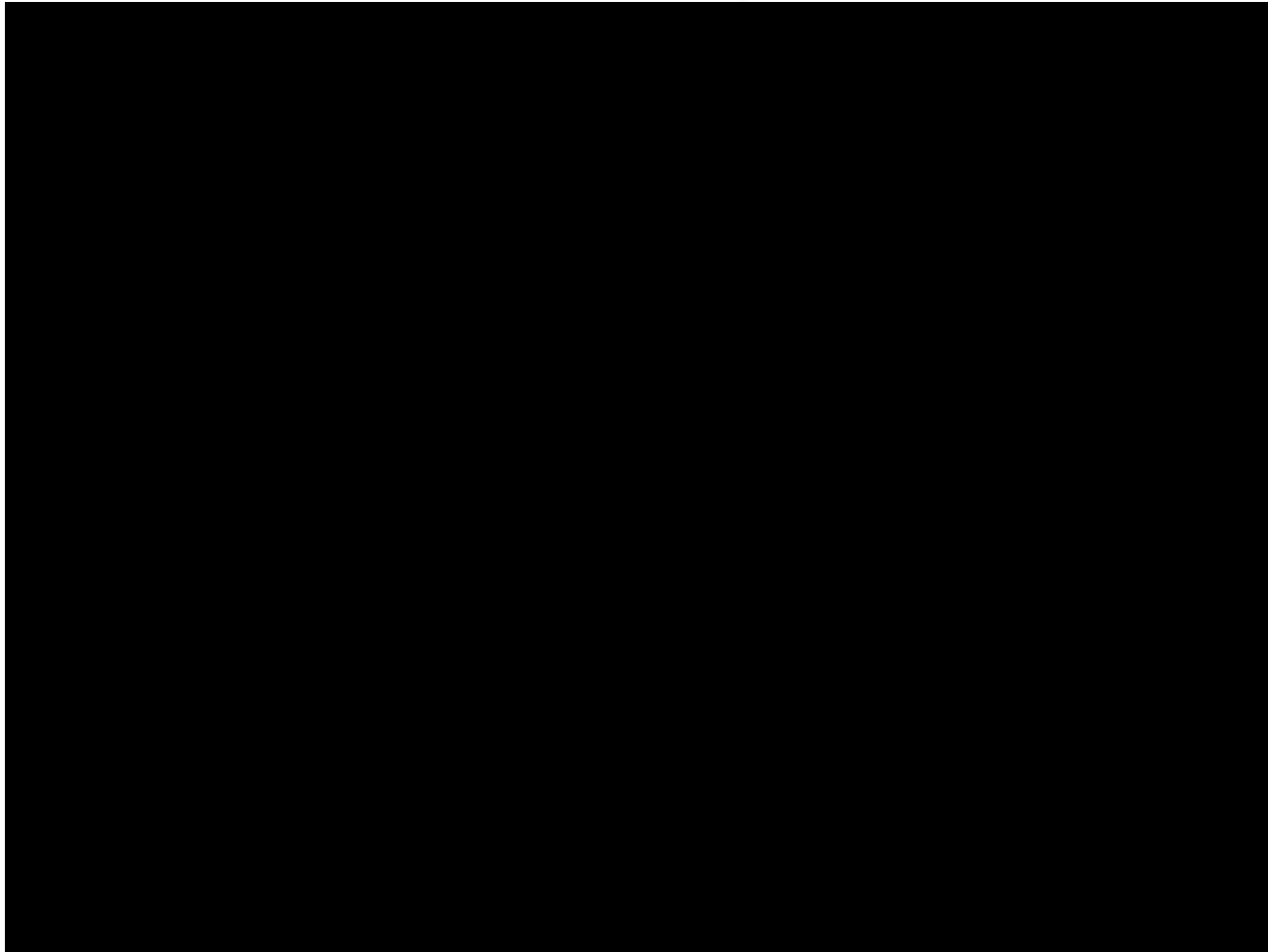


Human-Robot Interaction Videos



Mobile Robotics

AI Concepts



SPARK! Design Competition



Student Projects Advocating Resourceful Knowledge

SAVE THE DATE!

Saturday April 30, 2016

Food Provided
Free Shirts
Free Prizes
Fun Activities

www.rose-hulman.edu/rosebud

<http://bit.do/SPARK2016>



Where to Stay?



Holiday Inn Express
South Joe Fox Street



Hilton Garden Inn
Wabash Avenue



Candlewood Suites
Wabash Avenue

FINAL THOUGHTS

“I've learned that people will forget what you said, people will forget what you did, but people will never forget how you made them feel.”

-Maya Angelou





Questions



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