

#ILookLikeAnEngineer Breaking the Mold



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ROSE-BUD

Hume-Fogg Academic Magnet High School April 22, 2016







The Nerdy Engineer



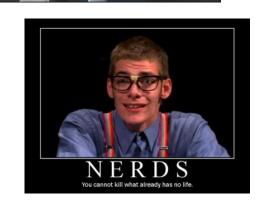


You know you're in the wrong class when more than 3 students are female, and they're all hot.

> -An engineering student







ARE GETTING PRETTY SERIOUS





















Who am I? How did I get here?





EDUCATION











"Intelligence plus character-that is the goal of true **education**."













Dedication and Vision



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









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*."





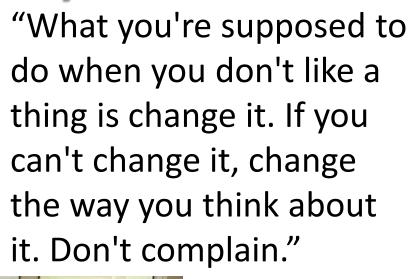


ROSE-BUD:



Rose Building Undergraduate

Diversity







Educator & Mentor



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"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."









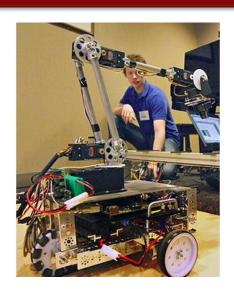
Robotics Education







To whom much is given, much is required











Robotics Service





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

-Martin Luther King Jr.













FIRST Robotics

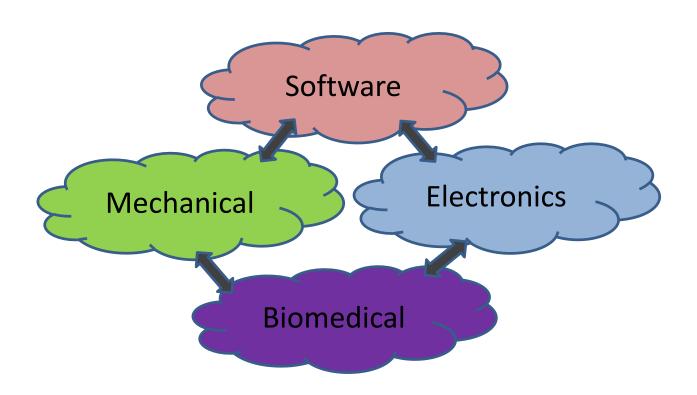
















What is a Robot?



Autonomous

Embodiment



Perception

Acting

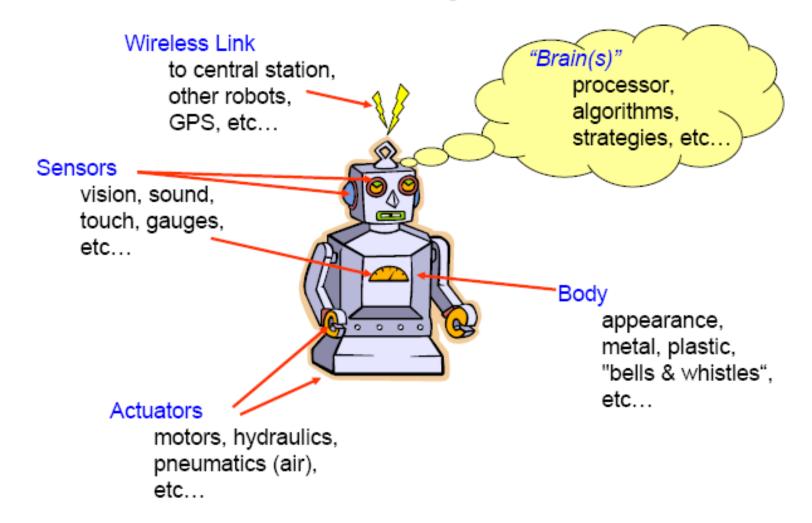
Goal/Task







Robot Components

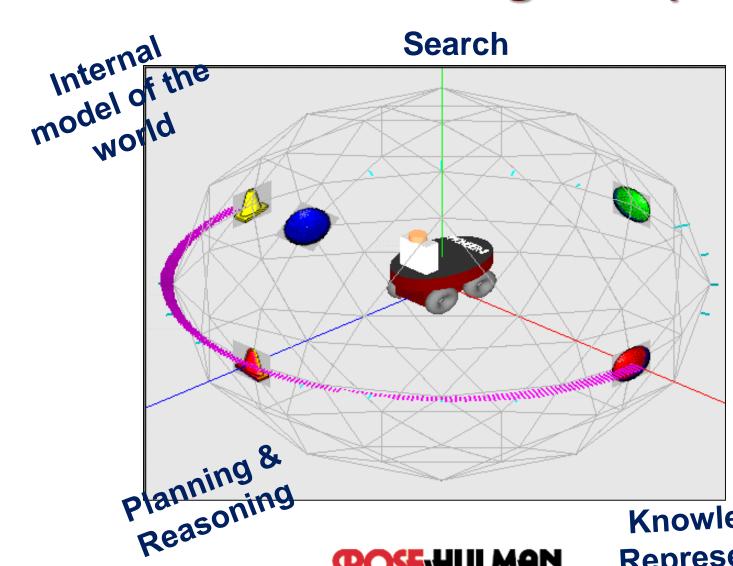








Artificial Intelligence (AI)



Problem Solving

Knowledge Representati



Robotics Control Spectrum



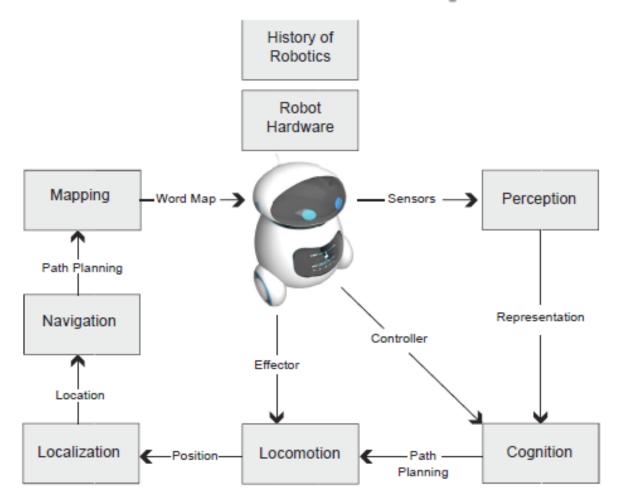


Figure 1.2: Mobile robotics cycle.





Freshman Design Lego and Arduino Robots















Human-Robot Interaction Videos





Mobile Robotics Al Concepts









SPARK! Design Competition





Saturday April 30, 2016



www.rose-hulman.edu/rosebud

http://bit.do/SPARK2016







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."















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