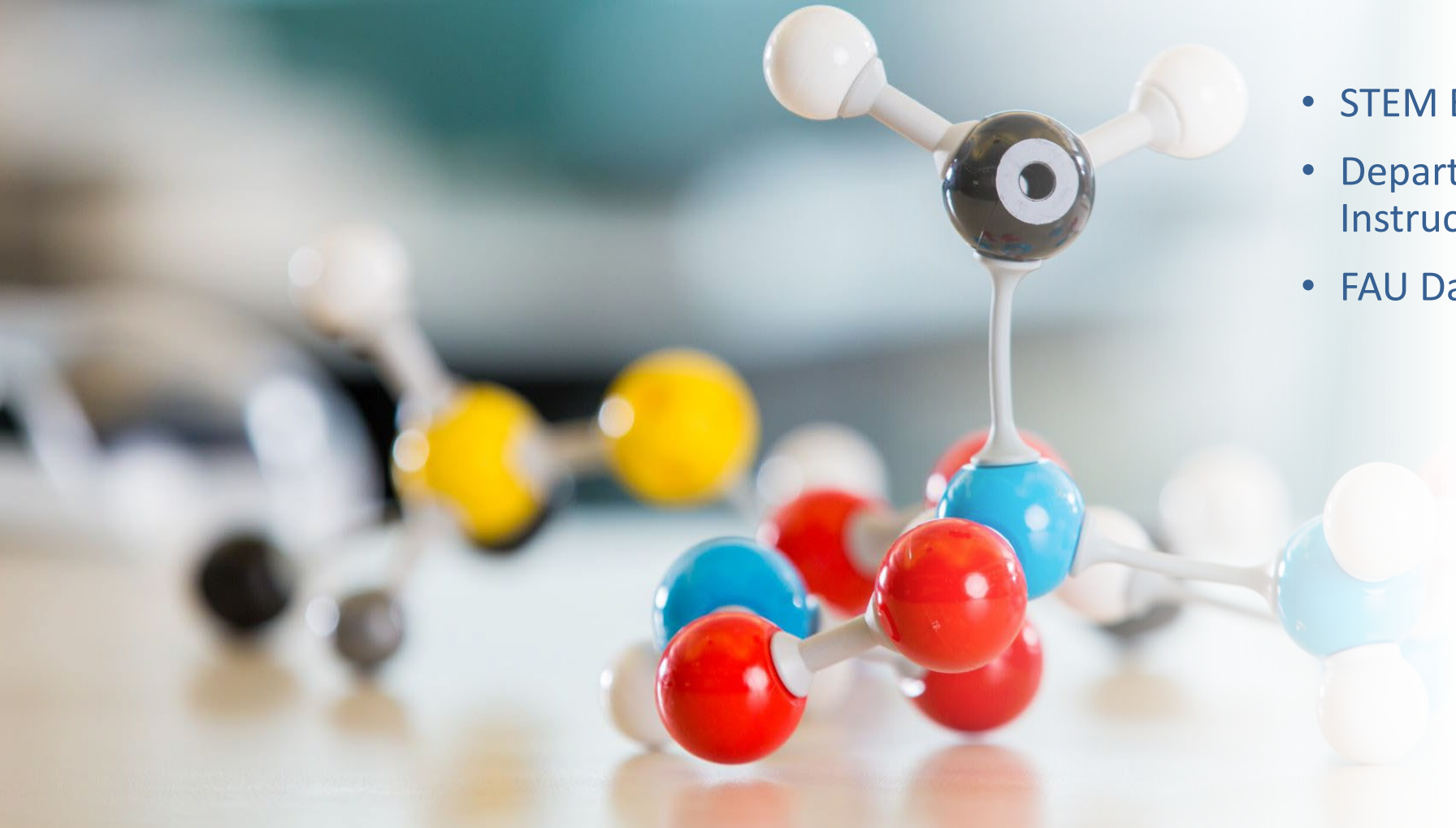




ROBOTICS DAY

Sponsored by:

- STEM Education Laboratory
- Department of Curriculum and Instruction
- FAU Davie Campus





STEM Education Lab Goals:

- FAU - Community involvement to develop strategies for the integration of STEM for literacy and workforce readiness
- Research, develop and disseminate best STEM education strategies
- Facilitate the adoption of effective STEM education in formal and informal educational settings



STEM Education Lab Mission

- To facilitate:
 - Teaching
 - Learning
 - Research
 - Evaluation
 - Curriculum
- In areas of
 - Science,
 - Technology
 - Engineering
 - Mathematics



Dr. Victoria Brown



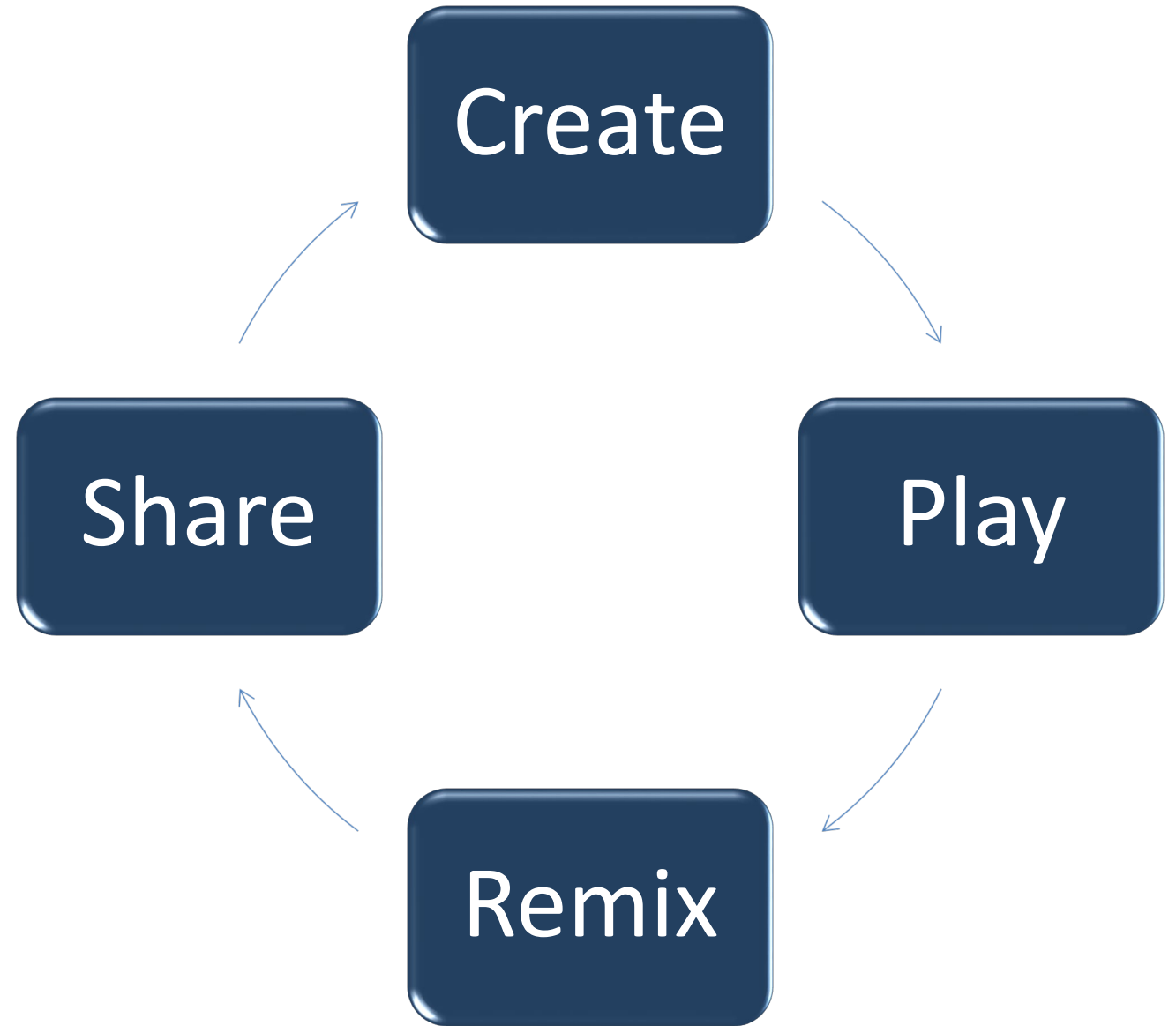
Dr. Ann Musgrove



Dr. Jillian Powers

Meet the Instructional Technology Faculty

Invention Cycle



What makes a robot?



CONTROL CENTER: MANAGE
THE INCOMING DATA.



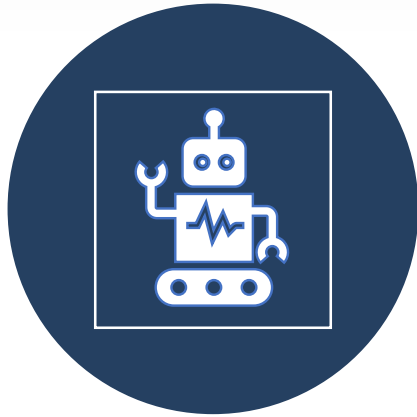
What makes a robot?



BODY: REQUIRED TO
CARRY OUT A TASK



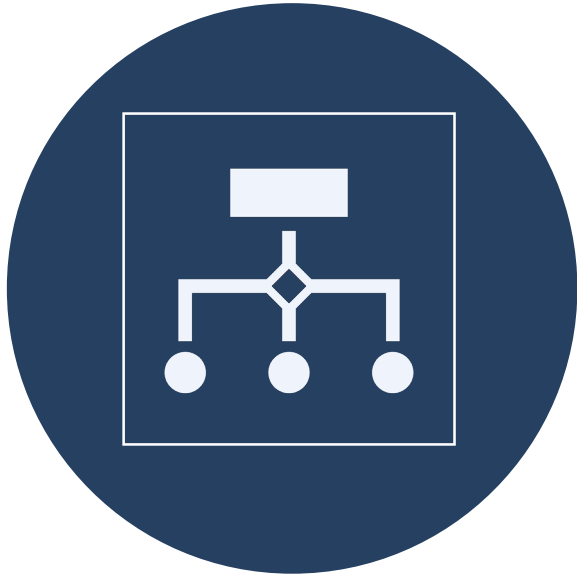
What makes a robot?



SENSORS: TO
RESPOND TO THE
ENVIRONMENT

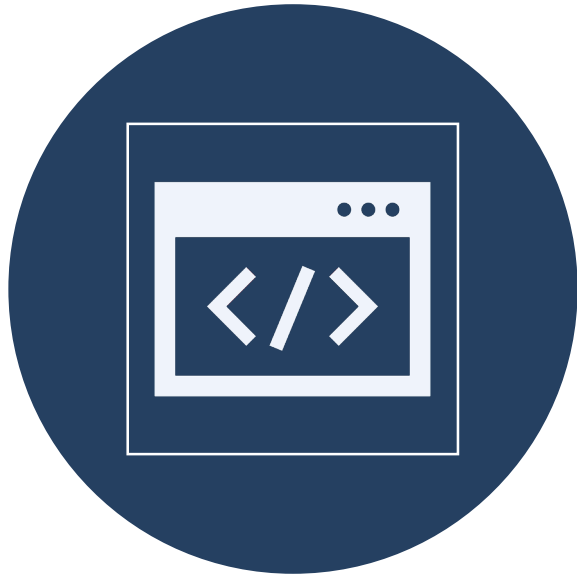


Computational Thinking for Robotics



Decomposition: Breaking down complex problems or systems into smaller manageable parts.

Computational Thinking



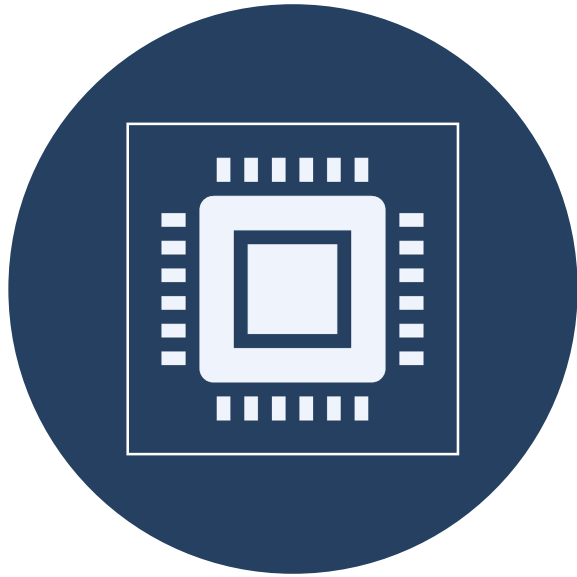
Pattern recognition: Looking for similarities between problems.

Computational Thinking



Abstraction: Identification of irrelevant details to focus on important information.

Computational Thinking



Algorithms: Developing step-by-step solutions or the development of rules that can be used to solve similar problems.

Computational Thinking



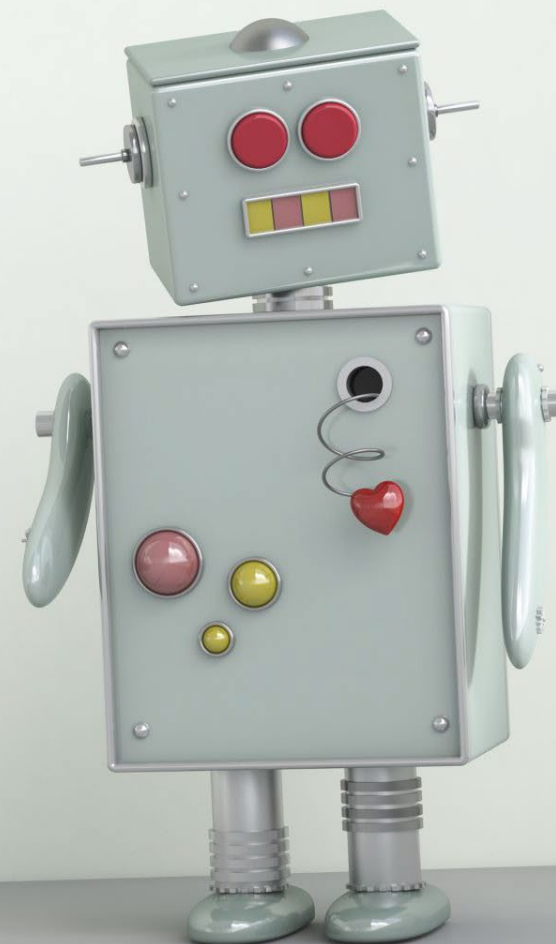
Evaluation: Analyzing the results of the solution.

Computational Thinking

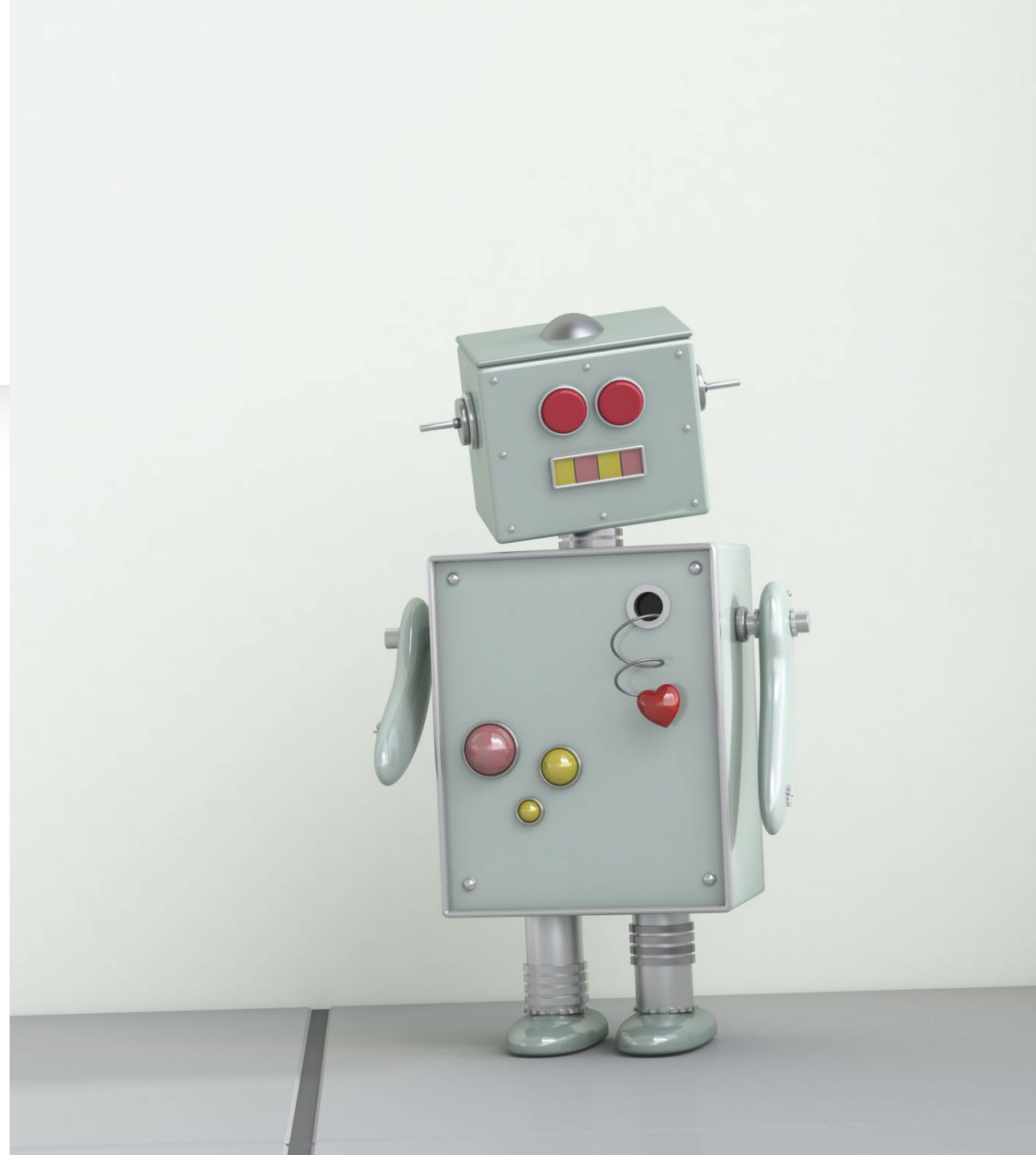


Reflection: How could the results be improved or how can the process be changed to work better next time?

Thank you to
Guest Speaker
Belinda Beckford!



Thank you to
Guest Speaker
Debra Kelly Thomas!






Thank you, volunteers!

- Nancy Rubin
- Helana Daly
- James Nance
- Pat Smith
- Jeanne Kossey
- George Romagosa
- Lauri Rebar
- Auntaria Johnson

Thank you to Media Technology Staff!

- Alberto Fernandez
- Ewert Borland
- Dale Brown
- Ivan Aristizabel
- Diana Campos
- Nikembe Patterson
- Dost Raja



A close-up, shallow depth-of-field photograph of a metallic, cylindrical component, likely a lens or part of an optical instrument. The component has several concentric rings and a central opening. The lighting is dramatic, highlighting the metallic texture and creating strong highlights and shadows. The background is blurred, showing other parts of the instrument.

Thank you to the College of Education

- Teresa Crane
- Andres Leons
- Josephine Elliot



Thank you, Broward Campuses!

- Dr. Linda Johnson
- Laura Pujols
- Patricia Koppisch



ROBOTICS DAY