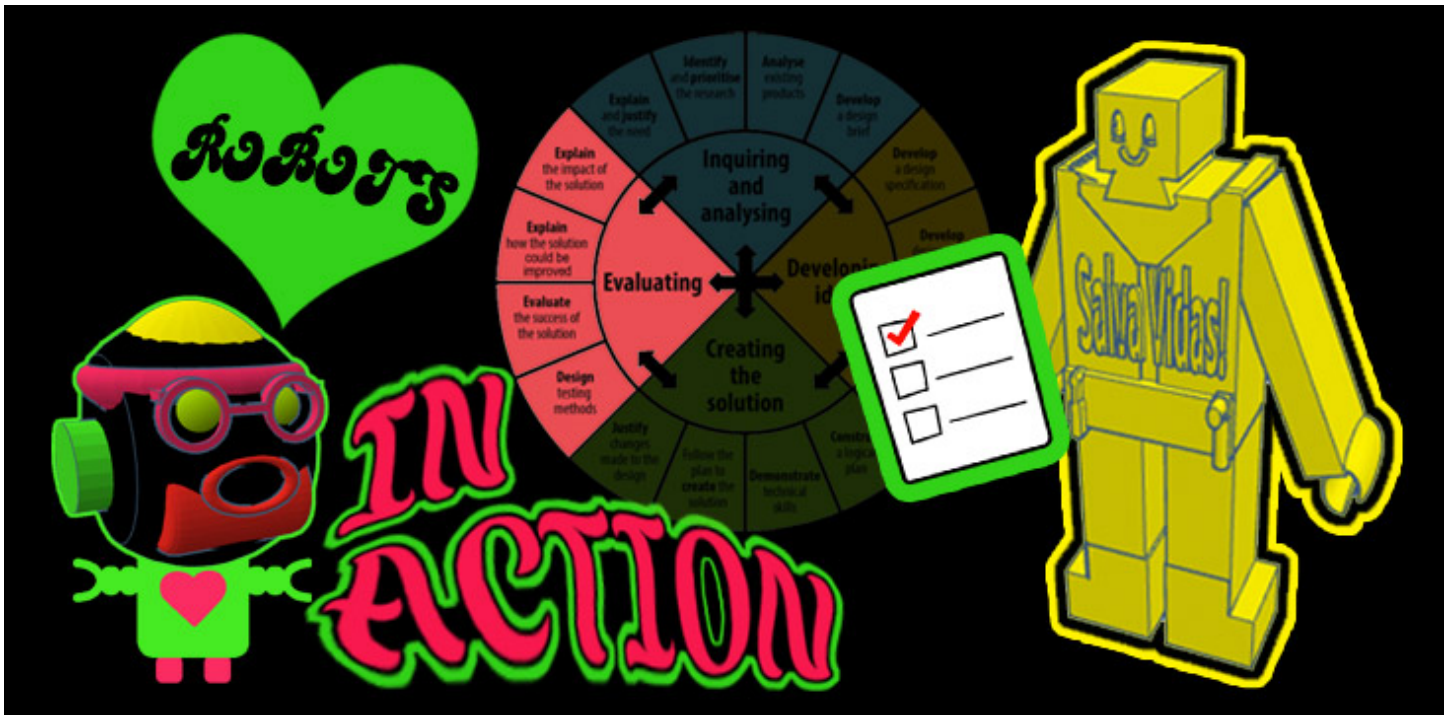
Robots in Action

Criterion D - Evaluation

Students evaluate the solution against the design specifications and explain the significance of their design for the client/audience.



D.0 - Review

Re-introduce the robot.

D.0.1 - Robot Name What is your robot's final name?
D.0.2 - Your TinkerCAD Robot (3D View) Insert a descriptive 3D screenshot of your final TinkerCAD robot. Click a corner of the navigation cube to help find the best 3D view.

>> Pause…Present your Robot Prototype. <<

D.1 - Design Detailed and Relevant Testing Methods

Design detailed and relevant testing methods that generate data to measure the success of the solution.

D.1.1 - Robot Presentation Feedback Insert photos of as many images of evaluator notes as possible in the space below to show the feedback you received. Make sure the text on each note is as readable as possible. Remove any extreme positive or negative outliers if you wish. Get Outlier Help

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D.2 - Evaluate the Success of the Solution

Evaluate the success of the solution against the design specifications.

D.2.1 - Robot Presentation Summary - Positive Feedback Write three examples of positive feedback you received during your robot presentation (written or verbal). It can be about the presentation, the robot, or both.
1. -
2. -
3. -
D.2.2 - Robot Presentation Summary - Constructive Feedback Write three examples of constructive feedback you received during your robot presentation (written or verbal). It can be about the presentation, the robot, or both.
1. -
2. -
3. -

D.3 - Explain How the Solution Could be Improved

State how the identified weaknesses and limitations of the solution could be improved.

Robot Presentation Improvement
Based on the evaluator's feedback and your perspective, what changes could be made to improve the presentation or robot?

Keep in mind:
- the CRAP Model for the presentation
- robot's humanoid appearance (with Tinkercad's basic shapes)
- robot's empathy role
- robot's integration into the community

Explain in 3 to 6 sentences.

D.4 - Explain the Impact of the Solution

Evaluate the solution to determine its impact on the client/target audience.

D.4.1 - Robots and Empathy
In the short animated movie **Light** (3:23), examine how the robot helps the human in empathetic ways. Now, imagine your robot as fully functional and working in Lima, Peru. Which robot is more effective at helping in empathetic ways, your robot or the robot featured in **Light**?

Reference Brené Brown's four attributes of empathy for help:
1. Perspective taking - see the world as others see it
2. Non-judgemental responses/actions
3. Recognizes emotions in humans
4. Communicates understandings of people's feelings

Explain in 4 to 6 sentences.

D.4.2 - Robots and their Environment

In the short movie **Wall-E, but it's just Mo** (2:41), examine how the physical form of the robot MO relates to the environment in which it operates. Now, imagine your robot as fully functional and working in Lima, Peru. Which robot would have a stronger connection between its form and the environment where it operates, your robot or MO? Explain in 4 to 6 sentences.