

Project-Based Learning: Frankenstein

Project Collaboration by Jonathan Nixon, Michael Smith, Matthew Iglehart, and Marcos Gutierrez Leanos

Topic:

Artificial Intelligence; Robots

Our Assignment:

On this assignment, we must:

- **Make a typed comprehensive list of the pros and cons of this advancement. You must have a minimum of TEN lines for each side, and use at least THREE different sources for your research. Due in Moodle Wednesday, November 9th by Midnight**
- Write an abstract (a summary in 200 words or less) of your advancement, and whether you believe **it is or is not** a moral liability.

Sources and Research:

- Research

["Inside the Artificial Intelligence Revolution: A Special Report Pt.1"](#)

["Inside the Artificial Intelligence Revolution: A Special Report Pt.2"](#)

[The Singularity Hub](#)

["Robot Assistant 'Pepper'"](#)

[Ted Talk Playlist on Artificial Intelligence](#)

["Different Types of Artificial Intelligence"](#)

["Types of Artificial Intelligence"](#)

["SingularityHub: Where Artificial Intelligence is Now and What's Just Around the Corner"](#)

["Samsung's New Artificial Intelligence"](#)

["Isaac Asimov's Three Laws of Robotics"](#)

-Note that it is science fiction.

["Losing Control: The Danger of Killer Robots"](#)

[AI and Manufacturing](#)

[Technological Singularity](#)

[Moore's Law](#)

[Pepper](#)

[MatPat on AI](#)

Pros:

- Could manufacture goods, .
- Could make manufacturing faster and more efficient, such as sentient robots managing themselves, creating a self-sufficient factory.
- Could be used for protection and security, such as watching over homes and alerting the owner when they are asleep.
- Could automate homes, leading to more free time among the family members.
- Could provide driverless transportation, creating a .
- Could greatly contribute the making of advanced products, as robots are much more accurate in producing things than humans.
- Could be used for medical purposes, such as an automated surgery table built to work as one machine, rather than multiple surgeons.
- Could be used for educational purposes, such as home schooling with robotic teachers.
- Could be used for prolonging life, e.g., cybernetic enhancement.
- Could be used to eliminate disease, such as Nanobots travelling through the bloodstream.

Cons:

- Could become so advanced it creates more and more advanced computers to upgrade itself, leading to a self-aware, super-intelligent computer.
- If unobserved the machines, could become defective and produce more defective machines, such as an out-of control factory.
- Could scan your files and store too much information on company or even public servers, leading to personal data going public.
- Could malfunction and harm humans, such as having a chance to start disasters like war..
- Could eliminate jobs, specifically factory jobs, leading to unemployment.
- Could be very expensive, as more advanced circuits and chips are becoming harder and harder to produce.
- Could be used for bad intentions, such as weaponry or militaristic use.
- If they are under-advanced, they would always have limitations when making choices, such as a computer always running on binary, or yes-or-no statements.

- If they are over-advanced, we would lose control over what they could do, such as a military drone deciding who or who not to eliminate on the battlefield.
- Robots follow a pattern, so they may skip over some things that could be beneficial or "worthwhile". A robot might malfunction in an automated surgery, killing the patient.

Abstract:

Area of Progress, Thesis statement (answer to driving question), explanation (not too detailed), How it connects to Frankenstein

Our area of progress is the study of the progression of Artificial Intelligence; specifically, Robots. Over time, robotics have made several advancements, and whilst we have found multiple innovative ideas as to how to program and create robots that can perform more tasks and more efficiently as our scientific capabilities and understandings progress.

Our stance on robots, and where their advancements surpass the line of moral choice of what is right and wrong is to the point that we create a robot so advanced, that artificial intelligence crosses the line into becoming a form of artificial life, with it's own functioning form of sentience/consciousness. As well as, when robots/artificial intelligence is used to cause intended harm upon humans/humanity as a whole.

As of this moment, it is legal for "killer robots" to be made; addressed within the article "Losing Control: The Dangers of Killer Robots", where it discusses the dangers of "Killer Robots"; asking for a union to put a ban on robots intended to kill or do harm upon a human. It is completely legal for the construction of "killer robots"; robots intended to kill or do harm upon a human. However, it is easily discerned that it is illegal for said harm or killing of a human to be *performed*; being placed under the legal issue of assault and/or murder. It is legal for "killer robots" to be *made*, but not legal for them to *perform* their intended purpose.

In contrast from the topic of robots intended for combat, there are the robots intended to be used within our homes, with our families. Pepper is one such robot. Pepper is a robot created/intended to work as "a genuine humanoid companion created to communicate with you in the most natural and intuitive way". He is shown to be able to recognise your face, speak to and hear you, as well as move around. He can be customized, through applications, can "dance, play or even learn", as well as speak to you in another language. He is said to

"evolve" with you, made to memorize your personality, traits, and preferences, and then adapt himself to you. He is constructed to fit in the place of another being of sentience; a form of a human, if you will. This brings to question of, how advanced will our robots get that we could have difficulty in depicting a robot from a human? And, he is said to be capable of functioning and making choices without human input. If this technology were to advance, robots could function as a form of sentient being, if they are capable of making their own choices with a consciousness.

These two topics that have been addressed relate to Frankenstein; specifically Frankenstein's Creation contrasting but similar ways. The Creation was thrown into this world alone and clueless, learning as he explored and gained experience. In that progress of learning, he caused the death of William Frankenstein, framing it on another. He, in a way, is "programmed" to wield a terrible strength. He does not have the "human" experience that others do, and he may have not understood his emotions and action's consequences; he can not tell the difference between right and wrong. He is, as a machine that does not take the moment to consider the human aspect of consequences; for he does not know it, therefore cannot consider it, until he later gained the needed experience/aspect(s).

As well as, the Creation's existence is a moral turmoil in itself. Victor has created a form of sentient life, something that is *alive*, and can make its own choices based off conscious thought and consideration(s). Victor has created life, which he shouldn't have done, and we, humanity, should not do. It will lead to us to question whether or not their existence is right or not, and if their choices hold any value; and what makes their choice different from ours. This will lead to conflict, and if robots become more advanced, able to make their own choice; who is to say *they* do not begin making robots of their own? They could hold the power to recreate themselves, and have the power to deem humans inferior; and have the power to overthrow the human race. If Frankenstein's Creation had the knowledge, and used it to recreate more like himself, who's to say they would not gain some form of malicious intent. (740 words)

Notes for Abstract:

- AI ties into Frankenstein in the respect that if we program a Sentient intelligence, we technically would be creating life, as we would have created a self-aware, thinking, and learning mind.
- At the rate technology is increasing, by the time we create AI, the technology we used to create it will have be enough for it to

keep upgrading itself, eventually becoming smarter than a human being.

Create an electronic presentation portfolio (via Google Sites, Livebinder, Weebly, or any other digital collection page) that shows the advancement of your choice, and proves your conclusion about your advancement. **Portfolios are due Tuesday, Nov. 17th by midnight. Email me the link to your presentation.**

- a.) You must choose **FOUR** products (two long, two short) to create from the [product list](#) to go in your portfolio. Each item you pick from the list must show your research, and prove your belief about your advancement. How will you communicate your team's belief/argument to your audience?
- b.) Figure out how to upload your products to the electronic portfolio of your choice.
- c.) Make sure and **include a Works Cited page of all research materials and images used**. The Works Cited page must be included in the portfolio, and be in MLA format (see Moodle for an example of MLA formatting).

Project Ideas:

1. Newspaper (Finished)
2. Pamphlet (Finished)
3. Shopping List (Finished)
4. Wanted Poster (Finished)

Projects (Final Products):

- Wanted Poster: <http://imgur.com/WX7gQ20>

- Pamphlet:
<http://pub.lucidpress.com/d20cbcde-182a-4af8-bb80-1246a2928699/>
- Shopping List:
https://www.canva.com/design/DACEpJWGquI/t8v5rjCxxaN7gCUjufCF_A/view?utm_content=DACEpJWGquI&utm_campaign=designshare&utm_medium=link&utm_source=sharebutton
- Newspaper (against Robots):
[Future Times Newspaper](#)
- Canva: [“Benefits of Robots”](#)

Works Cited:

Abstract Rewritten:

[Link to Abstract Essay](#)

BISCUITS

Script:

Jonathan: “(Greetings), my name is Jonathan Nixon, and this is Marcos Gutierrez, Matthew Iglehart, and Michael Smith. We will be presenting our topic of *Artificial Intelligence and Combat or, Killer Robots.*”

[Those who do not act/are not currently presenting, step to the side.]

[Abstract essay is presented on-screen.]

Jonathan: “To begin with, we will cover our abstract essay. Our stance is against further and more advanced development of the already stated; Artificial Intelligence and to put restrictions on the use and production of robots that are to be used in combat. Whilst it could have its benefits, the chances of issues, and the possible consequences and effects

they'd have are too risky and dire. I wish to address the initial thought of "*Robots rebelling, and going to a war against mankind?*" whilst it may seem like science fiction to some, if science continues to advance as it is, such an outcome to very well become a possibility. (*I may include a robot-sentience video I have seen, once I confirm if it is true, or just a set up.*) We as man are Victor, and the robots we create are our very own creatures, and already have robots within our homes, and there are already such things as robot or ai combatants, do we wish for the same misfortune that befell Victor to become our fate? The future is coming."

Jonathan: "The following is a simulation of sorts, a demonstration of a possible outcome if robots were to gain sentience; which can relate to the various stages of *Frankenstein*. Please save all questions and comments until the very end, where we will address them."

[Product Presentation begins.]

Jonathan: "Greetings! We are proud to say that as of today, we as humanity, have brought in our new companions, a race of robotic beings we shall work together in peace for until the end of time! We are proud to introduce, the representative for the robotkind, "*Zylagon Em-8472*"

[Matthew then walks to Jonathan, acting as to whisper in his ear, before stepping to the side once more]

[Wanted poster appears on-screen]

Jonathan: "O-Oh, uhm... It appears as though our representative is not here.. And rather, has just declared war. On us. Humanity."

[Matthew steps in, speaking as Jonathan steps to the side.]

Matthew: "But worry not, we at (Name of company/incorporation) have created preparational brochures to survive the oncoming attack."

[Matthew's Presentation]

[Feel free to explain and discuss your project; but do try to be constantly moving, and do try to plan ahead, or have a rough outline/idea of what you're going to say/do, as to not waste time.]

Any notes for yourself:

[Afterwards, Marcos takes over]

[Feel free to explain and discuss your project; but do try to be constantly moving, and do try to plan ahead, or have a rough outline/idea of what you're going to say/do, as to not waste time.]

Any notes for yourself:

[Michael then presents his newspaper "Extra! Extra!"; reporting the chaos that has occurred after the robots seemingly took control]

Jonathan: "But wait, perhaps we were too quick, perhaps there's a way we can make it out before we either get eradicated, or surrender to our robotic overlords?"

[Jonathan presents "Benefits of Robots" pamphlet; which discusses what could come out of allying with robots.]

[Michael then transitions to present his other newspaper; "(Don't know the title)"; talking about the robots working unified and mass producing products without error. They are building weapons.]

[As Michael presents, Matthew walks over to PC, acting to be typing and reading something.]

Matthew: "They've just taken those weapons and went to war on a global scale. All of Europe is gone. Even the little islands that were still counted as countries. They're headed towards the US, and they've hijacked all our nuclear weapons. They demand immediate surrender."

Group member: "Well, I'm not going out without a fight."

[Group member grabs nearest object, walking towards the door]

Jonathan: "Our actions have led to creating such a threat, why did we not consider this outcome when we had the chance?" **>Stares at audience** *"Why did we not work to prevent this issue before it started?"*

[Others then shrug, either choosing to grab something and follow, or just sit there and watch; possibly looking to hide somewhere.]

Jonathan: "And that will conclude our simulation, story, skit, or act; whichever you wish to call it. Now, as for how this relates everything in the book"

Marcos: "When Victor Frankenstein first wanted to bring life to the created to establish something glorious, the Elixir of Life; our interpretation for it was wanting to establish peace between robot and man, continuing to create more in peace."

Matthew: "Next, whenever the creature turned out horrid, or wrongly misled, murdering Victor's family and friends, he tried to get away from it, fleeing and letting William's death fall upon Josephine; which our interpretation was showing the pamphlets, teaching on how to survive and hide away."

Michael: "And the newspaper was shown to serve and represent the chaos that ensued for Victor; who was humanity, after he felt the creature's wrath; being the robots taking over."

Jonathan: "And the pamphlet and newspaper that talked about possible benefits of robots, and discussing how they could work with unity. Considered an alliance/partnership with the robots; being Victor during the time he sympathized with the creature, beginning construction on the creature's partner"

Jonathan: "And finally, the robots attacking, demanding for humanity to surrender. Humanity denied, the robots then becoming hostile to us, some going off to fight them; relating to how Victor destroyed the creature's partner before he could complete it, determined to fight the creature, hunting it even after it killed his wife."

Anyone: "These are our sources cited."

[Cite page put on-screen.]

Anyone: "Thank you for listening, now, any questions or comments?"

