QUICKSCAN - CANVAS

Pick and place gluing and curing machine.

NAME: Pick and place gluing and curing machine

DATE: November 4, 2025 12:01 AM

DESCRIPTION OF TECHNOLOGY

The pick and place gluing and curing machine takes lenses from a module and puts them into the correct holders, after that if dispences glue into the holders ad cures it, hardening the glue.

HUMAN VALUES

It isn't, it just picks, places, glues and cure lenses.

TRANSPARENCY

Yes, a instruction document is made with the steps on how the machine works. Furthermore everything you need to know about how the system works will be in the final document together with all the data collected.

IMPACT ON SOCIETY

Anteryon needs to enhance and expand its laser tooling capabilities to keep up with the rising demand and new innovations. There are many repetitive steps in the production. Therefor this can be automated so it will reduce the required human labour and time. When automated the system can also be used to detect defects in the placement of the lens in the tube or glueing. This way the production output and quality can be improved.

STAKEHOLDERS

- Anteryon
- Fontys university

SUSTAINABILITY

The biggest costs regarding energy would be the motors and everything regarding the nitrogen and air pressure. We sadly can't reduce the energy that the motors need without changing the motors itself, but that would change the entire machine making the project way more difficult than needed. The amound of nitrogen (and therfore the energy used) can be reduced drastically if we enclose the individual modules instead of the whole machine.

HATEFUL AND CRIMINAL ACTORS

It's very farfetched, but the machine has a camera, so a certain level of spying could be done, but it's only facing downwards so it's very unlikely

DATA

We do know about it and we do take it into account. Most of the data we are using was measured by the previous student that worked on this project, so we are going to check if everything is correct by doing our own tests

FUTURE

Nothong big will happen, the thing we are building will not affect the lifes of millions, not even thousands. The only people who will notice any difference willl be the engineers that will not have to do all of this process manually.

PRIVACY

No

INCLUSIVITY

It isn't bias or has any components that could have any subjective influence.

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THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO

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HUMAN VALUES

How is the identity of the (intended) users affected by the technology?

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?…

TRANSPARENCY

Is it explained to the users/stakeholders how the technology works and how the business model works?

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their…

IMPACT ON SOCIETY

What is exactly the problem? Is it really a problem? Are you sure?

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine…

STAKEHOLDERS

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by…

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.
…

SUSTAINABILITY

In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

HATEFUL AND CRIMINAL ACTORS

In which way can the technology be used to break the law or avoid the consequences of breaking the law?

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/ identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder…

DATA

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into…

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;…

FUTURE

What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

PRIVACY

Does the technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like…

INCLUSIVITY

Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases.…

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