



NAME: Robotics

DATE: July 15, 2025 9:02 PM

DESCRIPTION OF TECHNOLOGY
Creating a surveillance robot that can drive up and down the stairs and detect sound abnormalities for possible intrusion.




HUMAN VALUES



Some jobs will go away because the robot will do this better and cheaper. But its more of a tool used for security.

TRANSPARENCY



Yes, it is necessary for the stakeholders/users to know how the technology works so that it can be used in the correct way. This technology can save lives or save a lot of money

IMPACT ON SOCIETY




Het probleem is een tekort aan betaalbaar en beschikbaar beveiligingspersoneel. Dit kan leiden tot hoge kosten en veiligheidsrisico's. Het oplossen van dit probleem met technologie, zoals automatisering en bewakingssystemen, kan de kosten verlagen en de beschikbaarheid van beveiliging verbeteren. Het zou de wereld veiliger kunnen maken, maar vereist zorgvuldige planning en ethische overwegingen.

STAKEHOLDERS



- Avular
- Sorama

SUSTAINABILITY




Our project already takes into account the carbon footprint that the technology leaves on the planet Earth. To detect the specific sound anomaly the robot uses a microphone sensor array which limits the usage of the camera. That limits the video transferring since transferring the sound uses fewer bytes than video.

HATEFUL AND CRIMINAL ACTORS




with the technology you can alert the police station that there is a criminal in de building.

DATA




Our team is conscious of the limitations associated with data usage. Within our project, data will be retained only when the surveillance robot identifies a potential security breach at its patrolling location. It will not collect data from individuals passing by. It's important to see the potential challenges that may arise if the robot makes a wrong judgment, mistakenly identifying someone as a potential intruder and recording their actions. This requires careful consideration.

FUTURE




In the future the robot will only improve and be more reliable. In some cases it will take over the security business

PRIVACY



No, but with the acoustic camera it can film someones face.

INCLUSIVITY



No it records sound and vision abnormalities

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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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