

# Human-Robot Interaction Survey

Thank you for participating in the survey for my Master Thesis.

After performing the task, I kindly ask you to fill up this survey in order to get a better understanding of your experience.

This survey consists of 6 pages in total, each page takes maximum 2-3 minutes to complete. You can check your progress at the bottom of the page. Furthermore, it is important to notice that all questions must be answered.

Please do not hesitate in contacting me if you have any questions and/or comments by sending an e-mail to: [dpinto16@student.aau.dk](mailto:dpinto16@student.aau.dk) with the Subject "Human-Robot Interaction Survey - <date and time of the performed test>"

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**\*Required**

## 1. Gender \*

*Mark only one oval.*

☐ Female

☐ Male

☐ Other

## 2. Age \*

*Mark only one oval.*

☐ 20-25

☐ 26-30

☐ 31-35

☐ Over 36

## 3. Background (field of study/work) \*

*Mark only one oval.*

- ☐ IT/Engineering
- ☐ Business/Management
- ☐ Technician/Workshop
- ☐ Arts/Entertainment
- ☐ Science and Technology
- ☐ Health
- ☐ Robotics
- ☐ Other: \_\_\_\_\_

## 4. Have you ever interacted with an industrial robot before? \*

*Mark only one oval.*

- ☐ Never
- ☐ At least once
- ☐ I have programmed and/or work with industrial robots

## 5. How often do you interact with a Virtual Assistant? (Example: Siri, Ok Google, Alexa, etc.) \*

*Mark only one oval.*

- ☐ Never
- ☐ Rarely
- ☐ Somewhat often
- ☐ Often

6. Do you enjoy using a Virtual Assistant? \*

*Mark only one oval.*

- ☐ Yes
- ☐ No
- ☐ Indifferent

### Personal Preferences

7. Did you choose the manual or Virtual Assistant/Robot first? \*

*Mark only one oval.*

- ☐ Manual
- ☐ Virtual Assistant/Robot

8. In a few words, please justify your choice. \*

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9. If given the opportunity again, which would you opt for? \*

*Mark only one oval.*

- ☐ Manual
- ☐ Virtual Assistant/Robot

10. In a few words, please justify your choice. \*

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### Evaluation of the system's usability

## 11. Virtual Assistant (Max) \*

*Mark only one oval per row.*

	Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
I think that I would like to use Max frequently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found Max's screen interface unnecessarily complex	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I thought that Max couldn't understand what I was saying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt very confident using Max	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was stressed during my interaction with Max	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt insecure during my interaction with Max	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was annoyed during my interaction with Max	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## 12. Robot \*

*Mark only one oval per row.*

	Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
I think that I would need the support of an expert to be able to use the robot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I need to learn a lot of things before I could get going with the robot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was stressed during my interaction with the robot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt insecure during my interaction with the robot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was annoyed during my interaction with the robot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## 13. Max and Robot (system) \*

*Mark only one oval per row.*

	Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
I thought that the system was easy to use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found the various functions in the system were well integrated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would imagine most people would learn to use the system rather quickly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found the system very complicated to use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Evaluation of the perceived comfort while working on the task

14. How mental demanding was the task? \*

*Mark only one oval.*

	1	2	3	4	5	
Very low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very high

15. How physically demanding was the task? \*

*Mark only one oval.*

	1	2	3	4	5	
Very low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very high

16. How hurried or rushed was the pace of the task? \*

*Mark only one oval.*

	1	2	3	4	5	
Very low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very high

17. How successful were you in accomplishing what you were asked to do? \*

*Mark only one oval.*

	1	2	3	4	5	
Failure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Perfect

18. How hard did you have to work to accomplish your level of performance? \*

*Mark only one oval.*

	1	2	3	4	5	
Very low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very high

### Evaluation of engaging interaction

19. Who would you prefer to interact with? (Engaging) \*

*Mark only one oval.*

- ☐ Max
- ☐ An unexperienced worker
- ☐ Follow instructions written in the manual

20. Does the system seem interesting to use? (Interesting) \*

*Mark only one oval.*

- ☐ Extremely
- ☐ A bit
- ☐ Not much
- ☐ Not at all

21. Does Max sounds well informed and confident for the task at hand?  
(Knowledgeable) \*

*Mark only one oval.*

- ☐ Totally
- ☐ A bit
- ☐ Not much
- ☐ Not at all

22. Would you have preferred if the interaction with Max was done with a headset? \*

*Mark only one oval.*

- ☐ Yes
- ☐ No
- ☐ It doesn't matter to me

Personalised affirmations



23. \*

*Mark only one oval per row.*

	Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
At the start, I was comfortable approaching the robot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can operate the system good enough to carry out work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that the use of the system would increase factories' effectiveness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It was easy for me to get the needed information from Max	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By the end, I was comfortable approaching the robot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It was easy for me to operate the robot for this task	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can fulfil the task more efficiently with the help of the system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was confident while interacting with Max	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt capable of handling the system to perform the task	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt comfortable while interacting with Max	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Please share with me if you have any suggestions for improving the inteaction with the system

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