

Team T3

Brijesh Varsani (br667430@dal.ca)

Area: Machine Learning

Focus: Automation in cars

Topic: How do collision avoidance system works in cars and is it reliable?

Section of the presentation:

- Introduction: Jingwen Luo (B00860368)
- types of collision avoidance system. How they work: Christian Avery (B00869003)
- Problems faced with technology: Zhengjie Zhou (B00881493)
- Solutions and safety: Brijesh Varsani (B00882318)
- Its application and future career opportunities: Mansi Patel (B00871094)
- Conclusion and answering the question "Is it reliable?": Akash Singh Rana (B00840191)

Reference List:

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- [2] J. Nilsson, A. C. Ödholm and J. Fredriksson, "Worst-Case analysis of automotive collision avoidance systems," *IEEE Transactions on Vehicular Technology*, vol. 65, no. 4, pp. 1899-1911, 2016. [Accessed: 27-Mar-2022]
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- [5] Wei P, Cagle L, Reza T, Ball J, Gafford J. LiDAR and Camera Detection Fusion in a Real-Time Industrial Multi-Sensor Collision Avoidance System. *Electronics*. 2018; 7(6):84. <https://doi.org/10.3390/electronics7060084> [Accessed: 26-Mar-2022]
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- [10] Z. E. A. Elasad, H. Mousannif and H. A. Moatassime, "A real-time crash prediction fusion framework: An imbalance- aware strategy for collision avoidance systems," *Transportation Research Part C*, vol. 118, pp. 1-24, 2020. [Accessed: 27-Mar-2022]
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Description:

We first understood the audience and discussed the main purpose of our presentation. According to that, we have divided our presentation into 6 parts including the introduction, the technical part, problem and its causes, solutions, its application, and conclusion. We have met seven times since team assignments started. We met three times in person, twice for rehearsal. We met four times in teams to discuss the content of the presentation and to supply feedback and comments on teammates' performance. Outside of discussions, we also brainstormed ideas, shared valuable resources, and updated our progress. We also saw other team presentations and tried to understand what went wrong with those presentations, what made the presentation good and then tried to improve our presentation. All our teammates were active, and everyone was there in every single meeting we had. That was the plus point of our team performing well.