

In this project, I got to learn and understand the challenges we still face in tracking the surrounding vehicles in challenging weather conditions. I was able to learn different state-of-the-art tracking algorithms such as Joint Probabilistic data association (JPDA) and Multiple Hypothesis Tracking (MHT). This project also developed my technical writing skills and allowed me to reflect that on writing the conference papers. All in all, the project exposed me to the real-world scenarios and research methodologies, which would have been difficult to experience, just from the coursework in my degree plan.

Thanks, Safe-D!

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This project introduced me to the field of sensor fusion and data association. While designing the mount for the thermal camera system, I was able to leverage the advantages of 3D printing to rapidly prototype different designs, test and improve them before fabricating the final design using aluminum. I also got the opportunity to learn about the state-of-the-art neural networks/machine learning algorithms as I was responsible for implementing the object detection module. Finally, successfully publishing a peer-reviewed article in this space and addressing the reviewers' feedback allowed me to get an insight about the best practices for research in autonomous vehicle perception.

Thanks, Safe-D!

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