

Student name: Nicholas Britten

Academic level; Ph.D. Student, Industrial and Systems Engineering, Virginia Tech University

Impact Statement:

Working on the “Characterizing Level 2 Automation in a Naturalistic Driving Fleet” project has been immensely valuable to my professional development as a transportation researcher. Through my involvement in the project, I had the opportunity to contribute to the project proposal giving me experience in proposal writing, project management, and conducting literature reviews. My work on the project also provided me with the opportunity to develop a comprehensive data analysis plan, which enhanced my research design and data analysis abilities. Finally, the project gave me the opportunity to become more familiar with working with large naturalistic driving study datasets. Overall, I believe that the experience of working on the project has made me a better researcher and helped to prepare me for a future transportation research career.

Student name: Paolo Terranova

Academic level: Ph.D. Student; Biomedical Engineering and Mechanics, Virginia Tech University

Impact Statement:

The L2 project was a great opportunity for my professional growth. It significantly improved my research and big data analysis skills, particularly in dealing with big data. Working on this project, I gained experience in data analysis and interpretation, enhancing my ability to derive meaningful insights from complex information. Additionally, my participation in the L2 project exposed me to the management of naturalistic data, an area I hadn't explored previously. This experience introduced me to the complexities of handling such data, expanding my skill set and understanding of data management and analysis. This experience has not only benefited my current role, but I hope will also open up new career opportunities, making me a more versatile and resourceful professional in my field.

Student name: Haden Bragg

Academic level: Ph.D. Student; Biomedical Engineering and Mechanics, Virginia Tech University

Impact Statement:

During my time working on the L2 project, I had the opportunity to develop several useful professional skills. One of these skills was honing the ability to work with a team to accomplish a desired goal. One of my largest responsibilities was taking work that had previously been started by another team member and picking up where he left off to finish this task in such a way that it would be helpful for those within the project and beyond. To finish this task, which was creating code that could translate CAN variables into standardized VTTI variables, I needed to communicate with multiple members of the team as I ran into hurdles. This helped sharpen my communication skills, which will be useful in future professional relationships. Working on this

task also helped me become better at coding, and it improved my ability to problem-solve, which has helped me in my current work and will continue to be useful in the future. Overall, my experiences working on the L2 project helped me become a more well-rounded student and should aid in making me a better professional in the future.

Student name: Mariette Metrey

Academic level: Master's Student; Biomedical Engineering and Mechanics, Virginia Tech University

Impact Statement:

The Level 2 Automation project drastically increased my understanding of L2 features in vehicles and their usage. In my master's thesis, I investigated return-to-drive following rotator cuff repair. With the knowledge I gained from this project and familiarization with such features and their usage, I was able to consider the future of automation in return-to-drive applications. I also worked on the literature review for this project. Not only did working on such a task strengthen my searching skills for other works and publications, but the skills I learned have translated to my professional career as well. I currently work in the biotechnology space and often write reports of my findings at work. My technical writing skills have improved through my work on this project.

Student name: Martha Gizaw

Academic level: Ph.D. Student; Biomedical Engineering and Mechanics, Virginia Tech University

Impact Statement:

In writing, I recommended some manual and automated approaches to reclassifying videos taken during an NDS study involving SAE L2 vehicles. This project helped me develop the ability to propose technical or societal solutions to real-world problems.