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Spring 2022

## Schaeffler F-250 BEV Conversion: Power Electronics

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SCHAEFFLER DEMO TRUCK: POWER ELECTRONICS

CAPSTONE PROJECT FINAL REPORT

SENIOR DESIGN

4600:471

HONORS PROJECT

4600:497

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May 2022

**Honors Research Project**

Submitted to

*The Williams Honors College  
The University of Akron*

Approved:



Date:

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
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## Abstract

This report shows the work that was done on the power electronics system in the industry sponsored Schaeffler demonstration truck project. The goal of the project was to convert a combustion Ford F250 into a battery electric vehicle, while using as much Schaeffler technology as possible. After the vehicle is converted it will be used as a demonstration vehicle to show potential investors. While this project is still in progress, the work that was done during this time was substantial to the development of this project. Progress that has been made on the power electronics system includes developments in selecting major components, interface design, and preparing for testing.