



**D E S I G N
R E S E A R C H
E N G I N E E R I N G**

46475 Desoto Court
Novi, Michigan 48377
Tel: (248) 668 - 3450
Fax: (248) 668 - 3460

CASEY J. WAGONER

Project Engineer

Professional Background

Mr. Casey J. Wagoner is a Project Engineer in Electrical Engineering at Design Research Engineering. He specializes in automotive drivability and electrical systems diagnosis. Mr. Wagoner is experienced in hands-on troubleshooting and repair of many vehicle powertrain, body, chassis, and safety systems including engine, transmission, electronic throttle, brake, HVAC, airbag / SRS, steering, and suspension control systems. In his role as a Project Engineer, Mr. Wagoner analyzes the performance of vehicle electrical systems and components before, during, and after adverse conditions such as vehicle crashes and fires. He installs and calibrates automotive test equipment, designs and fabricates electronic testing devices, and performs technical analyses and electrical evaluations of vehicles and components from multiple domestic and foreign manufacturers. Other responsibilities include locating, procuring, and maintaining test vehicles and components from various automotive OEMs and suppliers, planning and executing drone-based missions to create 3D crash site and vehicle models, inspecting heavy trucks and components, including engine, air brakes, and other systems, accessing and collecting data from vehicle Event Data Recorders (EDRs), including both passenger vehicles and heavy trucks, and assisting with internal IT-related issues.

Prior to joining Design Research Engineering, Mr. Wagoner was a Service Engineer and Subject Matter Expert at the Ford Technical Hotline, where he assisted Ford dealership technicians in diagnosing difficult drivability concerns for gasoline engines. While completing his college studies, Mr. Wagoner was employed for a summer at the Technical Assistance Hotline for Toyota Motor Sales, USA.

Education and Honors

B.S., Automotive Technology, Southern Illinois University – Carbondale (*cum laude*), 2010
ASE Certified Master Technician (Tests A1-A9; L1), 2008
Southern Illinois University Automotive Technology Outstanding Senior of the Year Award, 2010
Skills USA-VICA Illinois Automotive Competition Champion, 2006

Other Credentials

Part 107 Commercial Drone Pilot Certificate
Bosch CDR Tool Technician Training, Institute of Police Technology and Management, Course 02127-4002

Professional Affiliation

Member – Society of Automotive Engineers