

Evan C. Chodora

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EDUCATION

Clemson University, Clemson, SC
Ph.D. in Mechanical Engineering

August 2017 - Present

The University of Alabama, Tuscaloosa, AL
Bachelor of Science in Mechanical Engineering

May 2017
GPA: 4.0/4.0

EXPERIENCE

Research Assistant
The University of Alabama

November 2016 – May 2017
Tuscaloosa, AL

- Developed and modified a MATLAB-based data analysis program for vehicle energy flow benchmarking analysis in collaboration with the Hyundai-Kia America Technical Center and Namyang, Korea R&D headquarters.
- Submitted literature review and program update reports to client directed by Dr. Hwan-Sik Yoon, UA.

Fuel Economy Development Engineering Intern
Hyundai Kia America Technical Center Incorporated

May 2016 – August 2016
Ann Arbor, MI

- Evaluated and benchmarked fuel economy improvement and CO₂ reduction technology to meet CAFE/EPA 2025 standards. Designed and implemented off-cycle greenhouse gas credit application test programs.
- Performed instrumented dynamometer (FTP, HWFET, US06, SC03) on-road fuel economy testing, roadload coastdown testing and SAE J2264 dynamometer calibration on Hyundai-Kia and competitive vehicles.
- Developed reporting standard and MATLAB data processing tool for EPA AC17 testing, conducted correlation and capability study to ensure test cell ambient condition regulations were met during testing.
- Facilitated generation of 15,250 MgCO₂ A/C efficiency technology credits through AC17 testing of MY15 vehicles.

Quality Control Vehicle Improvement Specialist (Co-op)
Kia Motors Manufacturing Georgia Incorporated

January 2014 – May 2015 (3 Rotations)
West Point, GA

- Evaluated assembly quality and conducted root cause analysis of manufacturing quality problems using statistical data tools (SPC, Pareto, and Fishbone Analysis) to drive and monitor assembly process improvements.
- Led development and implemented changes in machinery and Team Member processes to improve accuracy and reliability of vehicle steering system installation resulting in 65% reduction in customer warranty claims for improper steering column assembly and alignment.
- Participated on chassis and driving Launch Quality Teams focusing on muffler noise, steering function and transmission shift quality during manufacturing trials for assembly and final quality of the 2016 North American Kia Sorento.
- Conducted White-Light Scanning dimensional analysis of parts against CAD data for fit and inference investigations to recommend subsequent improvements.

TECHNICAL SKILLS

- Proficient in engineering design utilizing SolidWorks and experience using CATIA V5
- Expertise using MATLAB for data processing, automation and analysis
- Skilled in using ETAS INCA to log and analyze vehicle CAN and OBD data in addition to instrumenting and recording data from external thermocouples, voltmeters, and fuel flow devices (ES650, ES441, etc.)