This project will focus on the development of a small (automotive) scale waste heat recovery system. The system will be designed to recover waste heat from an arbitrary coolant stream such that it can be applicable to similar, non-automotive applications. The project will include the following segments.

1. Research
2. Design
3. Simulate
4. Build
5. Analyze

Title: Automotive Application of an Organic Rankine Cycle for Power Generation Recovering Waste Heat.

Research Objectives and expected outcomes:

Objectives:

* Design an organic Rankine cycle to recover heat from an automotive cooling system
* Simulate the designed system
* Build and evaluate the system

Expected results:

* Organic Rankine cycle prototype
* Design specifications for the prototype
* System measurements from the prototype
* Comparison of the measurements to the simulated results.