GRAND VALLEY STATE UNIVERSITY

School of Engineering

Master’s Thesis/Project Committee

1. Student Name: Glenn Clapp G#: 00293609
2. Course #: 695-02 Semester/Year: Fall 2018 Credit: 2

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
* Understand and optimize a vapor power cycle

Expected results:

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

Committee:

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| --- | --- | --- | --- | --- |
|  | Name | Designation/ Organization | E-mail address | Signature |
| Chair | Dr. Wael Mokhtar | Director, School of Engineering | [mohktarw@gvsu.edu](mailto:mohktarw@gvsu.edu) |  |
| Member | Larry Ridge | Chief Engineer, GHSP | [ridgel@ghsp.com](mailto:ridgel@ghsp.com) |  |
| Member | Dr Mehmet Sozen | Professor and Chair of Mechanical Engineering Program, School of Engineering | [sozenm@gvsu.edu](mailto:sozenm@gvsu.edu) |  |

By submitting this form, I am confirming that the above title, objectives, and outcome are approved by my committee.

Student Signature: Date: